



### **FOREWORD**

This specification provides interpretations and tolerances necessary to achieve uniform conformance to drawing requirements. The requirements in the following specifications and manufacturing practice are applicable to drawings as part of 1E0011. They are not distributed automatically but shall be requested separately as required. (See Article 2.0)

1E0008	THREAD - PIPE
1E0009	DEBURR REQUIREMENTS
1E0010	CONVERSION - METRIC MATERIAL
1E0012	INTERPRETATION - GEOMETRIC TOLERANCE
1E0198	BRAND MARKINGS AND IDENTIFICATION LETTERS
1E0500	THREAD - SCREW
1E2122	SURFACE TEXTURE
1E2177	MILL TOLERANCES - STEEL PRODUCTS
1E2347	QUALITY REQUIREMENTS - TUBE
1E2650	THREADS - MILLIMETER SIZE SCREW
1E4467	REACH - REGISTRATION, EVALUATION, AUTHORIZATION,
	AND RESTRICTION OF CHEMICAL SUBSTANCES
1E4617	INTERPRETATION – TUBE DRAWING
1E4966	CORROSION PREVENTATIVE – OVERVIEW
1E4972	CORROSION PREVENTATIVE – APPROVED SUPPLIERS AND
	CHEMICALS

THE INFORMATION HEREON IS THE PROPERTY OF CATERPILLAR INC. AND/OR ITS SUBSIDIARIES. WITHOUT WRITTEN PERMISSION, ANY COPYING, TRANSMITTAL TO OTHERS, AND ANY USE EXCEPT THAT FOR WHICH IT IS LOANED, IS PROHIBITED.			
	DATE	CHG NO	NUMBER
INTERPRETATION AND TOLERANCES - DRAWING	24 MAY 2018	57	1E0011

### **CORPORATE PRODUCT & PROCESS SPECIFICATION**



#### 1.0 SCOPE

**General -** This specification provides interpretations and tolerances necessary to achieve uniform conformance to drawing requirements. Dimensions and tolerances shown in illustrations may be in either millimeters or inches and are not necessarily recommended values.

### 2.0 APPLICATION

Caterpillar: Confidential Green

- **2.1 Caterpillar® Drawings -** 1E0011 applies to all drawings (in accordance with priorities listed in Article 3.0) whether or not 1E0011 appears on the drawing.
- **2.1.1 Exceptions -** For parts with procurement restricted to a specific source, approved supplier, or approved part, the interpretations and definitions within 1E0011 are applicable, but tolerances within Article 5.0 of 1E0011 do not apply.
- **2.2 General -** The requirements of the following specifications are applicable to drawings as part of 1E0011. These specifications shall be shown on new and updated drawings where applicable except for 1E0009, 1E0010, 1E0012, which will not appear on drawings. None of these documents will be distributed automatically with 1E0011 but shall be requested separately as required.

**Note:** For interpretation of each specification and variations where applicable, refer to the individual specification.

- **2.2.1 1E0008 Thread-Pipe -** Specifies gaging requirements for straight and tapered pipe threads.
- **2.2.2 1E0009 Deburr Requirements -** Specifies deburring requirements for metallic parts. 1E0009 shall not appear on drawings.
- **2.2.3 1E0010 Conversion To Metric Material Thicknesses -** Permits substitution of standard millimeter thicknesses for certain standard inch thicknesses and substitution of standard inch thicknesses for certain standard millimeter thicknesses without changing the engineering drawings. 1E0010A shall not appear on drawings.
- **2.2.4 1E0012 Interpretation Geometric Tolerances -** Provides the interpretation of dimensions, datums, datum targets (locators), form tolerances, positional tolerances, and profile tolerances. 1E0012 shall not appear on drawings.
- **2.2.5 1E0198 Brand Markings And Identification Letters -** This specification provides instruction for the branding of company products, parts, and packaging (including product, parts, and packaging made by approved suppliers for Caterpillar Inc. and its subsidiaries).

THE INFORMATION HEREON IS THE PROPERTY OF CATERPILLAR INC. AND/OR ITS SUBSIDIARIES. WITHOUT WRITTEN PERMISSION, ANY COPYING, TRANSMITTAL TO OTHERS, AND ANY USE EXCEPT THAT FOR WHICH IT IS LOANED, IS PROHIBITED.			
	DATE	CHG NO	NUMBER
INTERPRETATION AND TOLERANCES - DRAWING	24 MAY 2018	57	1E0011





- **2.2.6 1E0500 Thread-Screw -** Authorizes the substitution of unified inch thread tolerances in place of the former American National Standard thread tolerances without a drawing change.
- **2.2.7 1E2122 Surface Texture** Specifies surface requirements for:

Drawings Released Prior to Release of 1E2122 General Surface Requirements not Specified on Drawings Control of Tool Drag Marks

- **2.2.8 1E2177 Mill Tolerances Steel Products -** Flatness of parts made from steel plate shall be controlled by the flatness tolerances in 1E2177 when flatness requirements are not specified on the drawing.
- **2.2.9 1E2650 Threads Millimeter Size Screw -** 60 deg metric screw thread form is controlled by 1E2650.
- **2.2.10 1E2347 Quality Requirements Tube -** Provides interpretation for drawings of all parts and assemblies formed from tube material unless 1E2655 appears on the tube drawing.
- **2.2.11 1E4467 REACH Registration, Evaluation, Authorization, and Restriction of Chemical Substances -** It is essential that the supplier follow the recommendations contained in this 1E Specification relating to hazardous substances when supplying articles to Caterpillar or its subsidiaries.
- **2.2.12 1E4617 Interpretation Tube Drawing -** Provides a uniform interpretation and inspection procedure for all bent tube and tube assembly drawings.
- **2.2.13 1E4966/1E4972 Corrosion Preventative -** These specifications provide general information on Rust Preventative (RP) processes, use, selection, and resources. These documents exist to provide Caterpillar and suppliers with an overview of current process and direction to resources in order that they may understand rust preventatives and address RP selection and corrosion concerns effectively.
- **2.2.14 Minimum Cleanliness -** Parts, which will be wetted in a hydraulic, lubrication, or other system shall be visibly free of debris and contamination at the time of assembly to prime product or receipt at the dealership. This includes, but not limited to casting sand and core pieces, machining chips, weld slag, weld splatter, grinding dust, and packaging debris such as wood or other protective material. Arrangements to protect, ship, store, and handle parts shall be made by Global Purchasing and appropriate Internal Processing personnel to ensure this basic requirement is met.

THE INFORMATION HEREON IS THE PROPERTY OF CATERPILLAR INC. AND/OR ITS SUBSIDIARIES. WITHOUT WRITTEN PERMISSION, ANY COPYING, TRANSMITTAL TO OTHERS, AND ANY USE EXCEPT THAT FOR WHICH IT IS LOANED, IS PROHIBITED.			
	DATE	CHG NO	NUMBER
INTERPRETATION AND TOLERANCES - DRAWING	24 MAY 2018	57	1E0011





### 3.0 REQUIREMENT PRIORITY

**3.1 Completed Components -** Requirements for completed components include items such as dimensions, tolerances, material, heat treatment, coatings, etc., and are specified on the drawing or related specifications. Requirements are to be fulfilled according to the following priorities.

### 3.1.1 First Priority

- **3.1.1.1** Requirements shown on the body of the drawing, including notes (title block tolerances excluded).
- **3.1.1.2** Any requirement may be temporarily overridden by deviation or by special conditions covered in a specification or engineering notice.
- **3.1.1.3** Asbestos is not allowed in parts or material.
- **3.1.1.4** Parts with cadmium plating or which use cadmium as a stabilizer or pigment in plastics or paints shall not be accepted by Caterpillar after 01 Jan 1993.
- **3.1.2 Second Priority** Requirements included in applicable specifications.
- **3.1.2.1** 1E Specifications, except 1E0011, listed in the specification, material, and heat treatment blocks. Includes qualifying specifications listed as part of another specification.
- **3.1.2.2** Tolerances on raw stock are controlled by 1E2177, 1E2315, 1E2324, and 1E2325 Mill Tolerance Specifications or by applicable society or commercial specifications such as AISI, SAE, and ASTM. Stock dimensions are indicated on drawings as follows:

By the term	<b>STOCK</b>	TOL
By the term	1E	ΓOL.

As dimensions associated with **CFS** or **HFS** surface texture designations.

As dimensions that specify material shape identical to material size shown in the material block.

- **3.1.3 Third Priority -** Requirements included in 1E0011 Interpretation and Tolerances Specification.
- 3.1.4 Fourth Priority General tolerances listed in the title block on the drawing.

THE INFORMATION HEREON IS THE PROPERTY OF CATERPILLAR INC. AND/OR ITS SUBSIDIARIES. WITHOUT WRITTEN PERMISSION, ANY COPYING, TRANSMITTAL TO OTHERS, AND ANY USE EXCEPT THAT FOR WHICH IT IS LOANED, IS PROHIBITED.			
	DATE	CHG NO	NUMBER
INTERPRETATION AND TOLERANCES - DRAWING	24 MAY 2018	57	1E0011

Caterpillar: Confidential Green

### CORPORATE PRODUCT & PROCESS SPECIFICATION



### 4.0 GENERAL INTERPRETATION AND DEFINITIONS

**4.1 Parts Callout Block Component Type Headings -** Headings are used in the parts callout block to separate the listed components into categories. The headings describe the relationship of the component specified in the parts callout block to the drawing.

**Note:** On older drawings the headings (or terms) were part of notes, and components were listed either in the parts callout block with an explanatory note or as part of a note on the body of the drawing.

- **4.2** The following are definitions of the headings approved for use on drawings:
- **4.2.1** Parts List Parts list components are those components required to build the item described by the drawing and are listed first in the parts callout block.
- **4.2.2 MFG Purpose Only -** Manufacturing purpose only components are those components that are only required during the manufacturing process (such as plugs for testing, covers for protection during painting, shipping, or storage, and bosses added for machining that are removed later).
- **4.2.3 Parts Service Only -** Parts service only components are additional components that are required only when the item described by the drawing is provided for parts service (such as hardware for mounting).
- **4.2.4 Fulfilled By -** Listed under this heading are individual component part numbers, any of which can be used to fulfill the requirement of the Next Higher Level component(s). Components listed under the Fulfilled By heading are interchangeable.
- **4.2.5 Standard Removal -** Standard removal components are those components that shall be removed from the standard product when a product option is installed (such as removing a standard water pump and mounting hardware to install a high capacity water pump).
- **4.2.6** Attachment Removal Attachment removal components are those components of a product option that shall be removed to permit another product option to be installed (such as removing parts of an attachment heater to permit an attachment air conditioner to be installed).
- **4.2.7 Consist Removal -** Consist removal components are those components which are not required to build the item described by the drawing but are listed in the parts callout block of one of the drawings listed under the parts list heading. Typical applications are for custom shop modification and original equipment manufacturer drawings.

THE INFORMATION HEREON IS THE PROPERTY OF CATERPILLAR INC. AND/OR ITS SUBSIDIARIES. WITHOUT WRITTEN PERMISSION, ANY COPYING, TRANSMITTAL TO OTHERS, AND ANY USE EXCEPT THAT FOR WHICH IT IS LOANED, IS PROHIBITED.			
	DATE	CHG NO	NUMBER
INTERPRETATION AND TOLERANCES - DRAWING	24 MAY 2018	57	1E0011





- **4.2.8 Service Replt -** Service replacement components are the components required to provide complete replacement of the component part, assembly, or group. Typical applications are service of both a standard and attachment guard assembly by the attachment guard assembly.
- **4.2.9 Opt Service Replt -** Optional service replacement components are the special components used to replace the item described by the drawing. Typical applications are for oversize and undersize bearings, oversize pistons, and oversize piston rings.
- **4.2.10 Service Repair -** Service repair components are those components that are provided for service repair but which are not listed under the components list heading. This includes serviceable components for supplier components. Typical application is for repair kits.
- **4.2.11 Canceled Replaced By -** Canceled replaced by components are components that shall replace the items described on the drawing in all production and service applications.
- **4.2.12 Misc Ref** Miscellaneous reference components are those component numbers listed for informational purposes such as a part number listed with reference to a may make from note or part number listed on a typewritten drawing with reference to a line drawing note.
- **4.2.13** Requirements Requirement components are those part number drawings which specify test instructions or other requirements not covered by 1E Specifications.
- **4.3 Specification Interpretation -** Specifications listed on a drawing are considered to be extensions of the drawing and requirements of these specifications shall be met the same as requirements on the body of the drawing following the requirement priority in Article 3.0.
- **4.4 Drawings Of Supplier Components -** Caterpillar drawings of supplier components and their serviceable components reference a supplier's name to direct procurement. The terms approved part, approved supplier, or source in the supplier reference note on old style drawings, or in the material specification area on new style drawings determine procurement restrictions as follows:

THE INFORMATION HEREON IS THE PROPERTY OF CATERPILLAR INC. AND/OR ITS SUBSIDIARIES. WITHOUT WRITTEN PERMISSION, ANY COPYING, TRANSMITTAL TO OTHERS, AND ANY USE EXCEPT THAT FOR WHICH IT IS LOANED, IS PROHIBITED.			
	DATE	CHG NO	NUMBER
INTERPRETATION AND TOLERANCES - DRAWING	24 MAY 2018	57	1E0011





- **4.4.1 Approved Part** When the word **SUPPLIER** appears in the material block of an old style drawing and is referenced to a note: **APPROVED PART**, or when the words **APPD PART** appear in the material specification block of a new style drawing and is referenced to a note and the supplier's name and part number (one or more suppliers and components may be designated), only the designated supplier component(s) listed may be procured for Caterpillar needs. Purchasing and design control, however, may proceed to seek other supplier component(s); and where they are determined to be acceptable, design control may add those components to the drawing. Components procured to approved part drawings shall conform to the requirements (dimensions, tolerances, material, 1E Specifications, etc.) specified on the Caterpillar drawing.
- **4.4.2 Approved Supplier -** When the word **SUPPLIER** appears in the material block of an old style drawing and is referenced to a note: **APPROVED SUPPLIER**, or when the words **APPD SUPPLIER** appear in the material specification block of a new style drawing and is referenced to a note and the supplier's name (one or more approved supplier may be designated), the component may be procured only from the designated supplier(s). Purchasing and design control, however, may proceed to seek other supplier(s); and where they are determined acceptable, design control may add those suppliers to the drawing. Components procured to approved supplier drawings shall conform to the requirements (dimensions, tolerances, material, 1E Specifications, etc.) specified on the Caterpillar drawing.
- **4.4.3 Source -** When the word **SUPPLIER** appears in the material block of an old style drawing and is referenced to a note: **SOURCE**, or when the word **SOURCE** appears in the material specification block of a new style drawing and is referenced to a note and the supplier's name and part number, only the designated supplier component listed may be procured for Caterpillar needs. In this case, the supplier designated normally has exclusive rights to manufacture and sell this component, and there is no option to seek and approve other supplier components except by releasing a new part number drawing. Source part drawings may be distributed to Caterpillar subsidiaries, affiliates, product licensees, and contract manufacturers for their use in procurement of components from the designated source supplier. Source component drawings shall not be distributed to suppliers other than the designated source supplier unless written approval is obtained from the designated source supplier. Components procured to source drawings shall conform to the requirements (dimensions, tolerances, material, etc.) specified on the Caterpillar drawing.
- **4.5 Interpretation Of Dimensions -** All dimensions are to be considered absolute. Dimensions, regardless of the number of decimal places, are to be used as if they were continued with zeros. For example: 1.62 means 1.620---0 or 1.625 means 1.6250---0.

THE INFORMATION HEREON IS THE PROPERTY OF CATERPILLAR INC. AND/OR ITS SUBSIDIARIES. WITHOUT WRITTEN PERMISSION, ANY COPYING, TRANSMITTAL TO OTHERS, AND ANY USE EXCEPT THAT FOR WHICH IT IS LOANED, IS PROHIBITED.			
	DATE	CHG NO	NUMBER
INTERPRETATION AND TOLERANCES - DRAWING	24 MAY 2018	57	1E0011





- **4.5.1 Conversion Charts On Metric Drawings -** As a temporary transition aid, charts were provided on some metric drawings listing the metric values and units, and the equivalent nonmetric values and units. When a chart appears on the drawing, parts conforming to either the metric or nonmetric values are acceptable. This interim practice has been discontinued.
- **4.5.1.1 How To Use The Chart -** Use the converted number in the chart that is opposite the metric dimension or tolerance that has the same number of decimal places as the specified dimension or tolerance. This practice shall be followed because round-off accuracy is based on the number of decimal places in the specified metric dimension or tolerance. Dimensions and tolerances are shown as individual items in the chart.
- **4.5.1.2** The following numerical values do not require conversion taper ratio, angular degrees, normal module or diametral pitch in gear data blocks, thread designations, bulk material units in parts lists, polar moment of inertia, electrical units, and surface texture units above the short leg of the symbol (conversion is shown in 1E2122).
- **4.6 Metric Material -** 1E0010 (See Paragraph 2.2) authorizes substitution of material sizes specified on drawings.
- **4.7 Basic (BSC) Dimension -** A numerical value used to describe the theoretically exact size, profile, orientation, or location of a feature or datum target. It is the basis from which permissible variations are established by tolerances on other dimensions, in notes, or in feature control frames. Toleranced dimensions, which locate features, are considered basic when they are also used to establish basic profile for profile of a surface tolerances (such as cast or forged surfaces).
- **4.8 Tolerance -** The total amount by which a specific dimension (or requirement) is permitted to vary. The tolerance is the difference between the maximum and minimum limits.
- **4.9 Statistical Tolerance -** The statistical tolerance symbol is used to indicate that the tolerance shown shall be obtained using statistical process control.
- **4.10** Reference [(XX) OR XX REF] Dimension A dimension, usually without tolerance, used for information purposes only. A reference dimension is a dimension repeated from a related drawing or is derived from values shown on the drawing or related drawings. It does not control manufacturing or inspection operations.
- **4.10.1** On drawings released before Jul 1985, (**1EXXXX TOL**) related to a size dimension denotes the 1E Specification which contains the tolerance for that dimension.
- **4.10.2** Parentheses, which are part of a weld symbol, are excluded from the reference interpretation. (Refer to 1E0099 welding specification for weld symbol interpretation)

THE INFORMATION HEREON IS THE PROPERTY OF CATERPILLAR INC. AND/OR ITS SUBSIDIARIES. WITHOUT WRITTEN PERMISSION, ANY COPYING, TRANSMITTAL TO OTHERS, AND ANY USE EXCEPT THAT FOR WHICH IT IS LOANED, IS PROHIBITED.			
	DATE	CHG NO	NUMBER
INTERPRETATION AND TOLERANCES - DRAWING	24 MAY 2018	57	1E0011





- **4.11 Gage Dimension -** A type of basic dimension without tolerance used to establish a gaging point, line, diameter, or plane. Example: **X.XXX GAGE.**
- **4.12 Scaling Of Drawings -** The views on drawings are generally created full scale. Scale is expressed by numbers such as 1:2 or 1=2 which is read as one unit on the drawing equals two units on the components. However, drawing reproduction methods make scaling unreliable and unacceptable for inspection of parts.
- **4.12.1** Implied 90 Degree Or 0 Degree Basic Angle Surfaces and centerlines shown on drawings/models at right angles or parallel to each other are implied to be 90 degree or 0 degree basic angles. (See Paragraph 5.9)
- **4.13** Free State Dimensions and tolerances apply to the completed component in the free state condition unless otherwise specified.
- **4.14 MAX Or MIN Dimension -** When a **MAX** (maximum) dimension is specified, the other limit is zero unless limited by other dimensions. When a **MIN** (minimum) dimension is specified, the other limit is infinity unless limited by other dimensions.
- **4.15 Third Angle Projection -** The formation of an image or view upon a plane of projection placed between the object and the observer where the views are arranged in accordance with American Society of Mechanical Engineers (ASME) National Standard Y14.3 for Orthographic and Pictorial View drawings. Third angle projection is the method used on Caterpillar drawings and is identified by the international symbol for third angle projection shown in the drawing title block and in Figure 1.
- **4.16 Special Processing Requirement -** Information within brackets < > on drawings is a manufacturing (processing or assembly) requirement that is often more restrictive than the functional requirement (the functional requirement when one exists, is normally shown adjacent to or below the bracketed requirement). Conformance to the functional requirement is the basis for acceptance or rejection of completed components but the bracketed requirement shall also be in conformance to assure that the final part or assembly requirement is met (the bracketed requirement does not apply when voided by notation on the purchase order or work order).

THE INFORMATION HEREON IS THE PROPERTY OF CATERPILLAR INC. AND/OR ITS SUBSIDIARIES. WITHOUT WRITTEN PERMISSION, ANY COPYING, TRANSMITTAL TO OTHERS, AND ANY USE EXCEPT THAT FOR WHICH IT IS LOANED, IS PROHIBITED.			
	DATE	CHG NO	NUMBER
NTERPRETATION AND TOLERANCES - DRAWING	24 MAY 2018	57	1E0011





SYMBOL	INTERPRETATION
Ø	Diameter
$\sim$	All Around
	Square
	Conical Taper
	Flat Taper
	Counterbore
□ SF □	Spotface
<u>~</u>	Countersink
	Arc Length
$\overline{\mathbf{v}}$	Depth
<b>A</b>	Dimension Origin
<b>↓</b>	Between
⟨ST⟩	Statistical Tolerance
	Line of Symmetry
R	Radius
CR	Controlled Radius
SR	Spherical Radius
SØ	Spherical Diameter
X E	Holes, Places or By
	Centerline
S/R	Sharp or Radius
C/R_	Chamfer or Radius
<xx.x></xx.x>	Special Processing Requirement
DEBURR-2	Deburr According to Requirements in the Specification
Ø10-B	Letter Following Dash Indicated Hole Tolerance Class
(XX) or XX REF	Reference Dimension
XXX BSC	Basic Dimension
1EXXXX	Welding Symbol - Specific Interpretation is Provided in the Welding Specification Designated on the Drawing

Figure 1 - Symbol Interpretation (Continued On Next Page)

THE INFORMATION HEREON IS THE PROPERTY OF CATERPILLAR INC. AND/OR ITS SUBSIDIARIES. WITHOUT WRITTEN PERMISSION, ANY COPYING, TRANSMITTAL TO OTHERS, AND ANY USE EXCEPT THAT FOR WHICH IT IS LOANED, IS PROHIBITED.			
	DATE	CHG NO	NUMBER
INTERPRETATION AND TOLERANCES - DRAWING	24 MAY 2018	57	1E0011





SYMBOL	INTERPRETATION
1EXXXX()	Brazing Symbol - Specific Interpretation is Provided in the Brazing Specification Designated on the Drawing - Additional Symbols per 1E0099
1EXXXX()	Soldering Symbol - Specific Interpretation is Provided in the Soldering Specification Designated on the Drawing - Additional Symbols per 1E0099
1EXXXX()	Adhesive/Sealant Application Symbol - Specific Interpretation is Provided in the Adhesive/Sealant Specification Designated on the Drawing
XXX MAX or MIN	Maximum (or Minimum) Dimension
Ø XXX AVG	Average Diameter
01	Zero Plane Symbol
2/4	Surface Texture
X	Machining Required - Surface Texture
<b>⊕ □</b>	Third Angle Projection
2 11111	Strain Gage Symbol
€ <u>cost</u>	Key Cost Part

Figure 1 - Symbol Interpretation (Continued)

THE INFORMATION HEREON IS THE PROPERTY OF CATERPILLAR INC. AND/OR ITS SUBSIDIARIES. WITHOUT WRITTEN PERMISSION, ANY COPYING, TRANSMITTAL TO OTHERS, AND ANY USE EXCEPT THAT FOR WHICH IT IS LOANED, IS PROHIBITED.			
	DATE	CHG NO	NUMBER
INTERPRETATION AND TOLERANCES - DRAWING	24 MAY 2018	57	1E0011

Caterpillar: Confidential Green





- **4.17 Key Cost Part** The key cost symbol on the body of the drawing identifies it as a key cost part. Key cost parts represent approximately 3% of the part numbers, but a major portion of the Caterpillar total plant cost. All Caterpillar plants and suppliers producing key cost parts should have those systems in place which are necessary to closely monitor and control costs on those parts. This does not reduce the importance of cost reduction and control on the other parts, but indicates the vital few which should have highest priority.
- **4.18 Symbols On Drawings -** Figure 1 illustrates symbols used on drawings with their interpretation.
- **4.19 Dimensions Of Nonrigid Parts -** Nonrigid parts are those parts that distort, after removal of forces applied during manufacture, to an extent that in the free state they may be outside of the drawing tolerance. This distortion is principally due to the weight and flexibility of the part and the release of internal stresses resulting from manufacturing.
- **4.19.1** This interpretation is applicable to parts such as formed metal (sheet and plate) parts, fiberglass parts, and molded plastic or rubber parts except where otherwise specified on the drawing or in a related specification.
- **4.19.2** The amount of distortion shall not exceed that which allows the part to be brought within drawing tolerances for inspection and positioning at assembly by the application of hand pressures or forces equivalent to those which can be expected with normal assembly practices. Forces other than hand pressure are permitted only when the force and application method are specified on the drawing or are specified in a 1E Specification called out on the drawing. Parts shall be removed from manufacturing fixtures and placed in inspection fixtures to apply specified forces.
- **4.20** Bend Data Plate And Tube Dimensions shown in the plate and tube bend data blocks are mathematical calculations based on dimensional requirements of the part illustrated on the body of the drawing.
- **4.20.1** Title block tolerances, if shown on drawings of bent tubes, apply to radii shown in the tube bend data block. All other data block dimensions such as the straight lengths, arc lengths, and rotation angles are reference dimensions. (See Paragraph 4.10 for the definition of reference dimension)
- **4.20.2** Manufacturing uses these reference dimensions to determine actual flat development and tube straight length prior to bending. Variables such as material thickness, hardness, springback, and stretch shall be considered by manufacturing in order to produce parts within drawing tolerances.

THE INFORMATION HEREON IS THE PROPERTY OF CATERPILLAR INC. AND/OR ITS SUBSIDIARIES. WITHOUT WRITTEN PERMISSION, ANY COPYING, TRANSMITTAL TO OTHERS, AND ANY USE EXCEPT THAT FOR WHICH IT IS LOANED, IS PROHIBITED.			
	DATE	CHG NO	NUMBER
INTERPRETATION AND TOLERANCES - DRAWING	24 MAY 2018	57	1E0011



**4.21 Fillet Or Corner Radius -** For fillet and corner radii specified as radius **(R)** or controlled radius **(CR)**, interpret according to Figure 2. (See Paragraph 5.2 if no tolerance is specified)

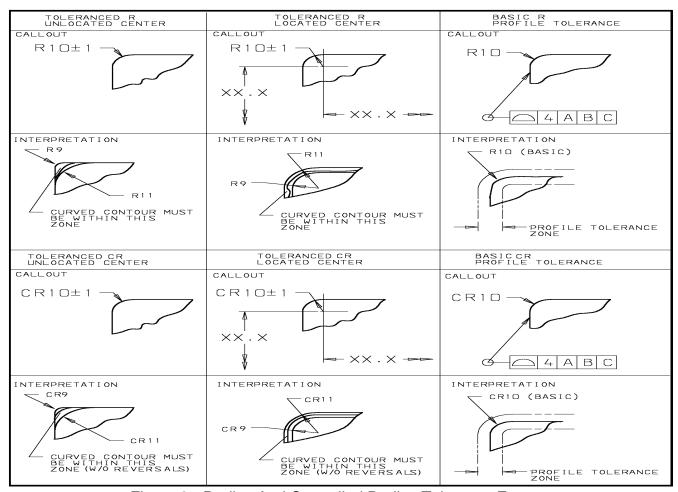


Figure 2 - Radius And Controlled Radius Tolerance Zones

THE INFORMATION HEREON IS THE PROPERTY OF CATERPILLAR INC. AND/OR ITS SUBSIDIARIES. WITHOUT WRITTEN PERMISSION, ANY COPYING, TRANSMITTAL TO OTHERS, AND ANY USE EXCEPT THAT FOR WHICH IT IS LOANED, IS PROHIBITED.			
	DATE	CHG NO	NUMBER
INTERPRETATION AND TOLERANCES - DRAWING	24 MAY 2018	57	1E0011



# **4.22 Chamfer -** Interpret according to Figure 3. (See Paragraph 5.1 if no tolerance is specified)

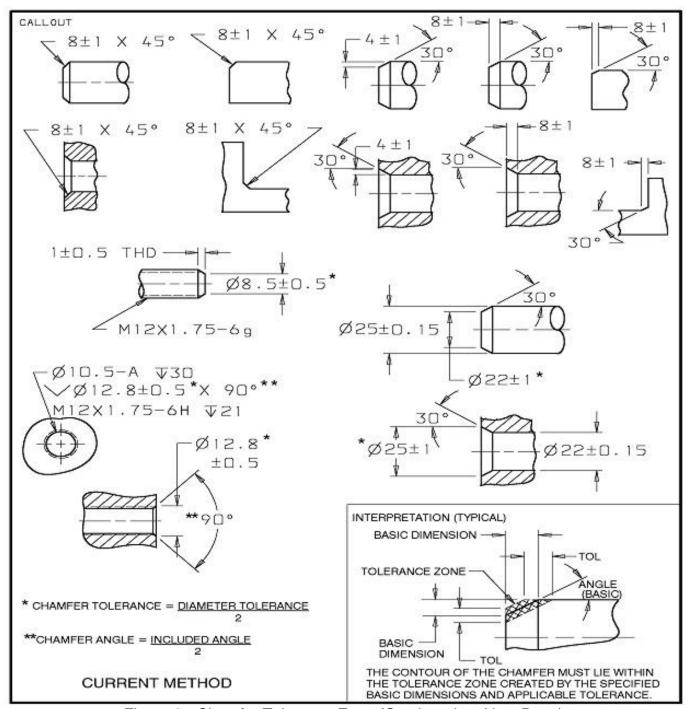


Figure 3 - Chamfer Tolerance Zone (Continued on Next Page)

THE INFORMATION HEREON IS THE PROPERTY OF CATERPILLAR INC. AND/OR ITS SUBSIDIARIES. WITHOUT WRITTEN PERMISSION, ANY COPYING, TRANSMITTAL TO OTHERS, AND ANY USE EXCEPT THAT FOR WHICH IT IS LOANED, IS PROHIBITED.			
	DATE	CHG NO	NUMBER
INTERPRETATION AND TOLERANCES - DRAWING	24 MAY 2018	57	1E0011



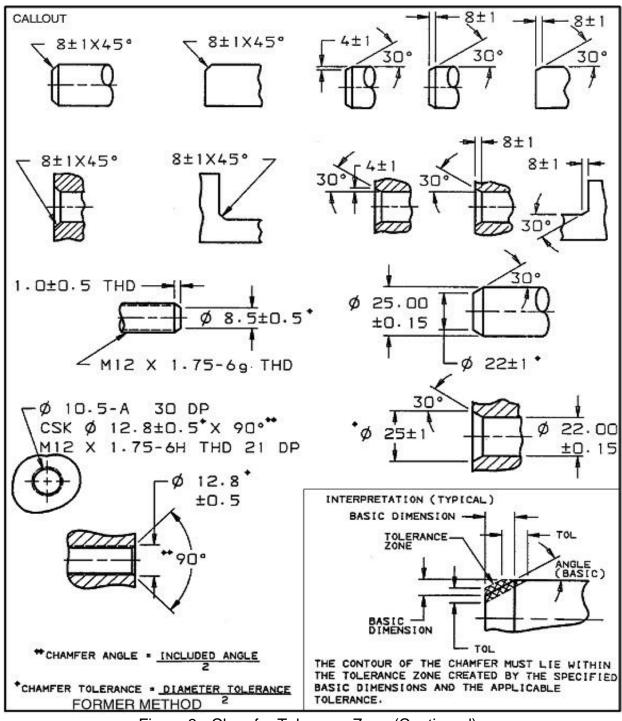


Figure 3 - Chamfer Tolerance Zone (Continued)

THE INFORMATION HEREON IS THE PROPERTY OF CATERPILLAR INC. AND/OR ITS SUBSIDIARIES. WITHOUT WRITTEN PERMISSION, ANY COPYING, TRANSMITTAL TO OTHERS, AND ANY USE EXCEPT THAT FOR WHICH IT IS LOANED, IS PROHIBITED.			
	DATE	CHG NO	NUMBER
INTERPRETATION AND TOLERANCES - DRAWING	24 MAY 2018	57	1E0011



**4.23 Maximum Radius With Profile Tolerance -** For inside and outside corners specified as maximum radius (R MAX), interpret according to Figure 4. Former method included chamfer/radius (C/R), which is no longer used.

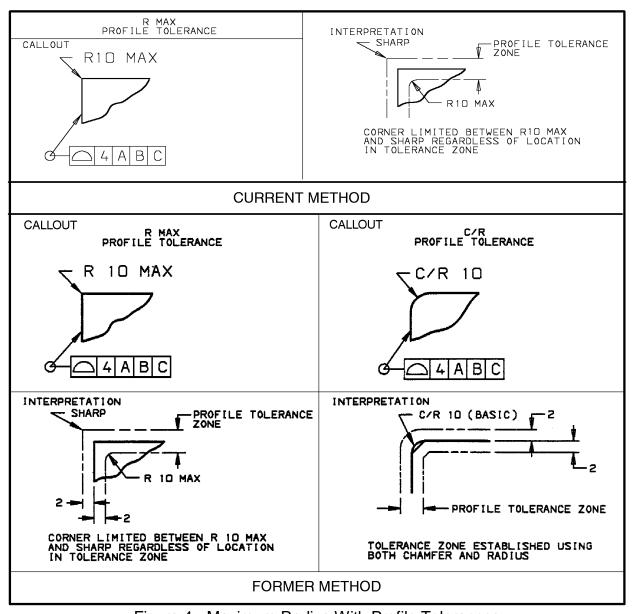


Figure 4 - Maximum Radius With Profile Tolerances

THE INFORMATION HEREON IS THE PROPERTY OF CATERPILLAR INC. AND/OR ITS SUBSIDIARIES. WITHOUT WRITTEN PERMISSION, ANY COPYING, TRANSMITTAL TO OTHERS, AND ANY USE EXCEPT THAT FOR WHICH IT IS LOANED, IS PROHIBITED.			
	DATE	CHG NO	NUMBER
INTERPRETATION AND TOLERANCES - DRAWING	24 MAY 2018	57	1E0011



**4.24** Chamfer/Radius (C/R) - Interpret according to Figure 5. (See Paragraph 5.2 if no tolerance is specified) Former method, C/R is not used on new drawings.

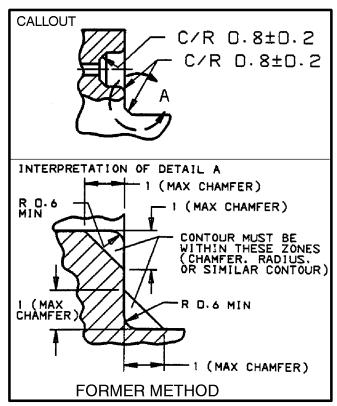


Figure 5 - Chamfer/Radius (C/R)

THE INFORMATION HEREON IS THE PROPERTY OF CATERPILLAR INC. AND/OR ITS SUBSIDIARIES. WITHOUT WRITTEN PERMISSION, ANY COPYING, TRANSMITTAL TO OTHERS, AND ANY USE EXCEPT THAT FOR WHICH IT IS LOANED, IS PROHIBITED.			
	CHG NO	NUMBER	
INTERPRETATION AND TOLERANCES - DRAWING	24 MAY 2018	57	1E0011

Caterpillar: Confidential Green



### 4.25 Countersink (CSK) - Interpret according to Figure 6.

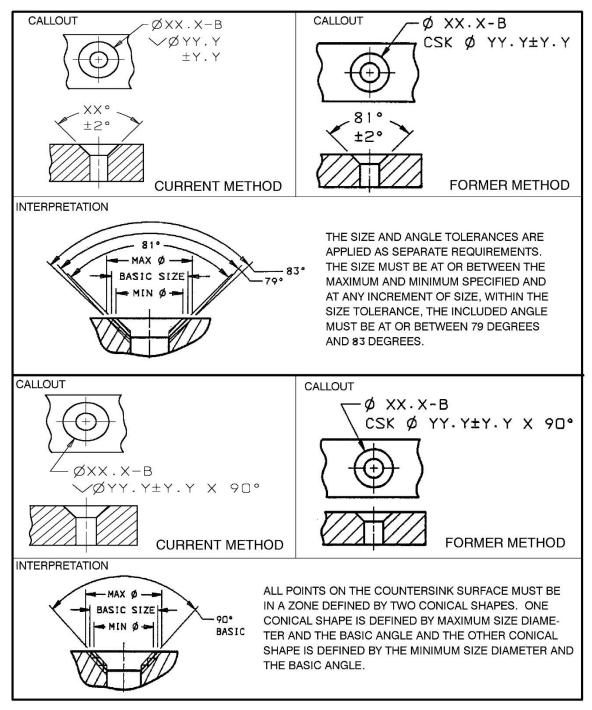


Figure 6 - Countersink Tolerance Zone

THE INFORMATION HEREON IS THE PROPERTY OF CATERPILLAR INC. AND/OR ITS SUBSIDIARIES. WITHOUT WRITTEN PERMISSION, ANY COPYING, TRANSMITTAL TO OTHERS, AND ANY USE EXCEPT THAT FOR WHICH IT IS LOANED, IS PROHIBITED.			
	DATE	CHG NO	NUMBER
INTERPRETATION AND TOLERANCES - DRAWING	24 MAY 2018	57	1E0011

Caterpillar: Confidential Green



4.26 Maximum Radius (R MAX) Former Designation Sharp/Radius (S/R) - Interpret according to Figure 7. (See Paragraph 5.2 if no tolerance is specified for **S/R**)

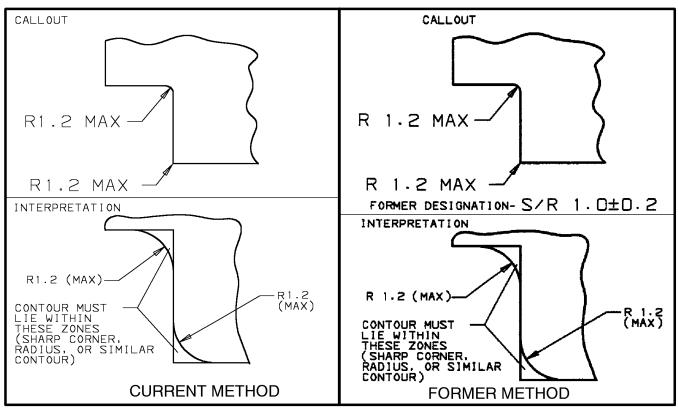


Figure 7 - Maximum Radius (R MAX) Or S/R

- 4.27 Maximum Chamfer or Maximum Chamfer/Radius (C/R MAX) Interpret according to Figure 9.
- 4.28 45 Degree Chamfer Where a 3.2 mm (.125 inch) or less 45 degree chamfer is specified at the internal intersection of two surfaces (bottom of a counterbore), a chamfer or radius is permitted as interpreted in Figure 5.

THE INFORMATION HEREON IS THE PROPERTY OF CATERPILLAR INC. AND/OR ITS SUBSIDIARIES. WITHOUT WRITTEN PERMISSION, ANY COPYING, TRANSMITTAL TO OTHERS, AND ANY USE EXCEPT THAT FOR WHICH IT IS LOANED, IS PROHIBITED.			
	DATE	CHG NO	NUMBER
INTERPRETATION AND TOLERANCES - DRAWING	24 MAY 2018	57	1E0011



**4.29 Zero Plane Dimensions -** Zero plane dimensioning is a simplified rectangular coordinate dimensioning system. Dimensions placed adjacent to extension lines indicate the distance from a parallel zero plane without the use of dimension lines and arrowheads. The zero plane is identified with a rectangular symbol enclosing the plane identification number 01, 02, or 03. (See Figure 8)

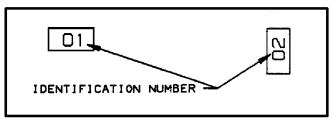


Figure 8 - Zero Planes

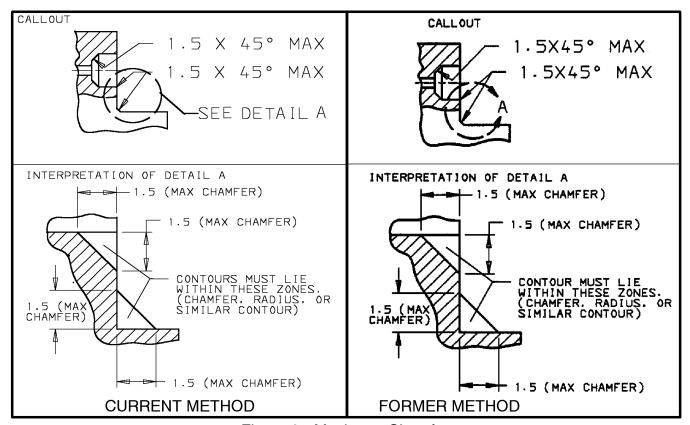


Figure 9 - Maximum Chamfer

THE INFORMATION HEREON IS THE PROPERTY OF CATERPILLAR INC. AND/OR ITS SUBSIDIARIES. WITHOUT WRITTEN PERMISSION, ANY COPYING, TRANSMITTAL TO OTHERS, AND ANY USE EXCEPT THAT FOR WHICH IT IS LOANED, IS PROHIBITED.			
	DATE	CHG NO	NUMBER
INTERPRETATION AND TOLERANCES - DRAWING	24 MAY 2018	57	1E0011



**4.30** True Radius - The term true added to the radius indicates that the radius has not been shown in its true shape in the views provided. The true shape may be illustrated by adding an auxiliary view as shown in the interpretation in Figure 10.

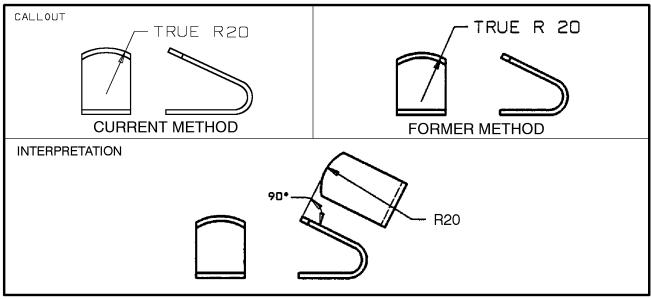


Figure 10 - True Radius

- **4.31 Plant Identification Codes (Obsolete) -** All components, which show part number identity that, are manufactured or purchased by licensees or licensed Auxiliary Equipment Manufacturer's (AEM) shall have the plant identification code applied immediately following the part number. The code shall be applied in the same manner and be the same size as the part number. Application shall be as follows:
- **4.31.1** The assigned plant identification code shall be used. (See Figure 11)

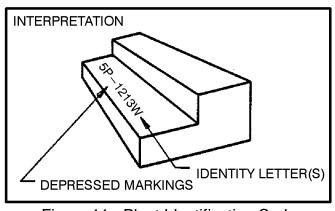


Figure 11 - Plant Identification Code

THE INFORMATION HEREON IS THE PROPERTY OF CATERPILLAR INC. AND/OR ITS SUBSIDIARIES. WITHOUT WRITTEN PERMISSION, ANY COPYING, TRANSMITTAL TO OTHERS, AND ANY USE EXCEPT THAT FOR WHICH IT IS LOANED, IS PROHIBITED.			
	DATE	CHG NO	NUMBER
INTERPRETATION AND TOLERANCES - DRAWING	24 MAY 2018	57	1E0011





- **4.31.2** For manufactured components, the plant identification code assigned to the licensee or licensed AEM shall be used.
- **4.31.3** For purchased components, the code designated on the purchase order shall be used. If a code is not shown on the purchase order, the supplier shall request assignment of a plant identification code from the Caterpillar Product Source Planning Department.
- **4.32 Country of Origin Markings -** United States Federal Laws require that non-U.S. origin components imported into the United States be marked (with exceptions below) to identify the country of origin.
- **4.32.1** All parts made outside of the U.S. and imported into the U.S. shall be marked legibly in a conspicuous location with the full name of the country of origin in English and as permanently as the component will permit unless one of the exceptions listed in Paragraph 4.32.2 applies.
- **4.32.2** Individual parts need not be marked if:
- **4.32.2.1** It is a rough casting or forging which will be substantially transformed into a new and different part in a U.S. Caterpillar manufacturing facility.
- **4.32.2.2** It is incapable of being marked (e.g., machine screw).
- **4.32.2.3** It cannot be marked by the manufacturer without damage (e.g., wire cloth).
- **4.32.2.4** It cannot be marked except at an expense that is economically prohibitive (e.g., fine wire spring).
- **4.32.2.5** It shall reach the ultimate purchaser (customer or user) in a marked container (e.g., sleeve type bearing packed by a specific quantity in the box for sale to a user in that box, unopened).
- **4.32.2.6** It is a crude substance (e.g., bulk clay, coal, limestone).
- **4.32.2.7** It is imported for use by the importer and not for sale (e.g., tools).
- **4.32.2.8** It shall be processed by the importer so that any markings would necessarily be obliterated, destroyed, or permanently concealed: (e.g., gears where mark is obliterated, bearing used in production or concealed in parts assemblies and not sold individually as parts).
- **4.32.3** If an item is exempt from marking under Paragraphs 4.32.2.2 through 4.32.2.5, the outermost container that normally reaches the ultimate purchaser, shall be marked to indicate the country of manufacture of the purchased finished material.

THE INFORMATION HEREON IS THE PROPERTY OF CATERPILLAR INC. AND/OR ITS SUBSIDIARIES. WITHOUT WRITTEN PERMISSION, ANY COPYING, TRANSMITTAL TO OTHERS, AND ANY USE EXCEPT THAT FOR WHICH IT IS LOANED, IS PROHIBITED.			
	DATE	CHG NO	NUMBER
INTERPRETATION AND TOLERANCES - DRAWING	24 MAY 2018	57	1E0011



- **4.32.4** When it is believed that these marking guides cannot be followed, the matter should be referred through the plant traffic representative to traffic department with full details so that the matter can be discussed with the legal department and handled with U.S. Customs for an exception before importation.
- **4.33 Trademark -** The trademark shall be applied in accordance with 1E0198 **BRAND MARKINGS AND IDENTIFICATION LETTERS** and the appropriate 1E0198 specification variation shall be indicated on the drawing for all metallic and nonmetallic new design parts and for all parts being updated or retooled.
- **4.34 Conical Taper -** Conical taper is expressed as a unitless ratio by specifying the conical taper symbol followed by the taper (on diameter) per unit of length. For example: **1:8 TAPER ON DIA** means 1 unit of taper per 8 units of length.
- **4.35** Flat Taper Flat taper is expressed as a unitless ratio by specifying the flat taper symbol followed by the ratio of the difference in heights at each end to the distance between the heights.
- **4.36 COUNTERSINK (CSK) -** A countersink specified in a note type dimension as shown in Figure 12 shall be interpreted as being on the near side of the part unless otherwise specified by a note.

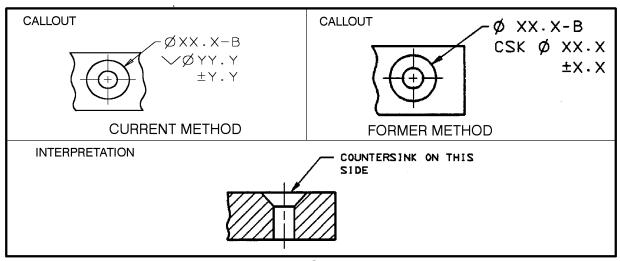


Figure 12 - Countersink

**4.37** Thru Hole - The abbreviation **THRU** following a hole dimension is used where it is not clearly shown that the hole goes completely thru the part or portion of the part.

THE INFORMATION HEREON IS THE PROPERTY OF CATERPILLAR INC. AND/OR ITS SUBSIDIARIES. WITHOUT WRITTEN PERMISSION, ANY COPYING, TRANSMITTAL TO OTHERS, AND ANY USE EXCEPT THAT FOR WHICH IT IS LOANED, IS PROHIBITED.			
	DATE	CHG NO	NUMBER
INTERPRETATION AND TOLERANCES - DRAWING	24 MAY 2018	57	1E0011



**4.38 Depth Dimensions For Multiple Diameter Non Thru Holes -** For the depth dimensions of multiple diameters in note type dimensions, the depth for each diameter is from the outer surface of the part (See Figure 13) unless otherwise specified by a note.

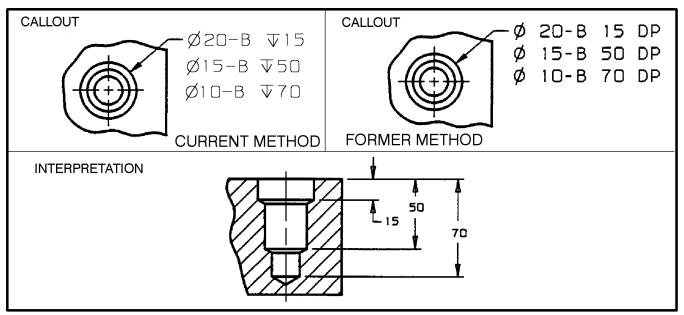


Figure 13 - Depth Of Multiple Diameter Holes

**4.39 Paint Specifications Called Out On Part Drawings Or By Other Methods -** Unless otherwise specified, the dimensions and tolerances called out on part drawings apply to the finished part before paint.

### 5.0 TOLERANCE

**Note:** The following tolerances apply when none is specified on the drawing (with the dimension), in another specification called out on the drawing, or in the title block.

- **5.1 Chamfer -** Apply the following tolerances to the smaller of the two sides; for chamfers 1 mm (.04 inch) and less, apply  $\pm 0.25$  ( $\pm$ . 01 inch); for chamfers over 1 mm (.04 inch), apply  $\pm 0.5$  ( $\pm$ .02 inch). (See Figure 3 for the interpretations)
- **5.1.1** For an 82 degree chamfer on a hole perpendicular to the axis of a circular part, apply ±5 degree tolerance.
- **5.1.2** For a 144 degree chamfer on a hole perpendicular to the axis of a circular part, apply ±3 degree tolerance.

THE INFORMATION HEREON IS THE PROPERTY OF CATERPILLAR INC. AND/OR ITS SUBSIDIARIES. WITHOUT WRITTEN PERMISSION, ANY COPYING, TRANSMITTAL TO OTHERS, AND ANY USE EXCEPT THAT FOR WHICH IT IS LOANED, IS PROHIBITED.			
	DATE	CHG NO	NUMBER
INTERPRETATION AND TOLERANCES - DRAWING	24 MAY 2018	57	1E0011



**5.2** Radius, C/R, Or S/R - For nominal sizes of 1 mm (.04 inch) or less, apply ±0.25 mm (±.01 inch). For nominal sizes over 1 mm (.04 inch), apply ±0.5 mm (±.02 inch) (See Figures 2, 7, and 8 for interpretations)

#### 5.3 Hole Location

**5.3.1** For a hole perpendicular to the axis of a circular feature, apply the tolerances determined in Figure 14.

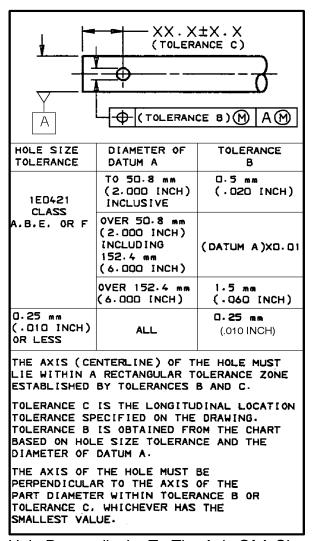


Figure 14 - Hole Perpendicular To The Axis Of A Circular Feature

**5.3.2** For a hole parallel to the axis of a circular feature. (See Figure 15)

THE INFORMATION HEREON IS THE PROPERTY OF CATERPILLAR INC. AND/OR ITS SUBSIDIARIES. WITHOUT WRITTEN PERMISSION, ANY COPYING, TRANSMITTAL TO OTHERS, AND ANY USE EXCEPT THAT FOR WHICH IT IS LOANED, IS PROHIBITED.			
	DATE	CHG NO	NUMBER
INTERPRETATION AND TOLERANCES - DRAWING	24 MAY 2018	57	1E0011



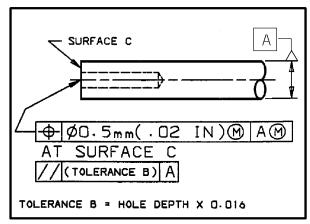


Figure 15 - Hole Parallel To The Axis Of Circular Feature

### 5.3.3 Equally Spaced Holes

- **5.3.3.1** The position tolerance for plain or threaded equally spaced holes shall be 0.64 mm (.025 inch) diameter when both of the following conditions exist.
- **5.3.3.2** The drawing tolerance on the plain hole diameter is equal to or greater than the 1E0421 hole tolerance for Class A holes.
- **5.3.3.3** The drawing tolerance on the bolt circle diameter is  $\pm 0.25$  mm ( $\pm .01$  inch) or greater. The bolt circle diameter shall be considered basic (without tolerance) when applying position tolerance.
- **5.3.3.4** For equally spaced holes with close size tolerances such as 0.013 mm (.0005 inch) and bolt circle tolerances less than ±0.25 mm (±.01 inch), contact design control for a drawing change to add position tolerances per current Corporate Product and Process Standards.
- **5.4 Woodruff Keyslot Position And Parallelism -** See Figure 16 for tolerances.

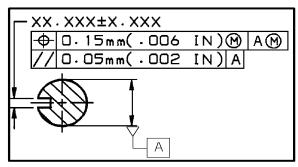


Figure 16 - Woodruff Keyslot Location

THE INFORMATION HEREON IS THE PROPERTY OF CATERPILLAR INC. AND/OR ITS SUBSIDIARIES. WITHOUT WRITTEN PERMISSION, ANY COPYING, TRANSMITTAL TO OTHERS, AND ANY USE EXCEPT THAT FOR WHICH IT IS LOANED, IS PROHIBITED.			
	DATE	CHG NO	NUMBER
INTERPRETATION AND TOLERANCES - DRAWING	24 MAY 2018	57	1E0011



- **5.5 Tapered Cylindrical Surfaces** Tapered surfaces shall show a minimum of 75 percent contact area, when checked with a taper gage to which a thin coat of Prussian blue has been applied. Contact shall show for the full length of the taper at some point on the taper.
- **5.6 Counterbore Or Spotface -** Counterbores are specified by the diameter, depth, and corner condition using one of the methods shown in Figure 17. Spotfaces are specified as shown in Figure 17 and when a spotface is specified without controlling the depth or surface texture, it shall be interpreted according to Figure 17. If no tolerance is specified on the spotface diameter, apply ±0.8 mm (±.03 inch). (Refer to 1E2122 for control of spotface surface texture.)

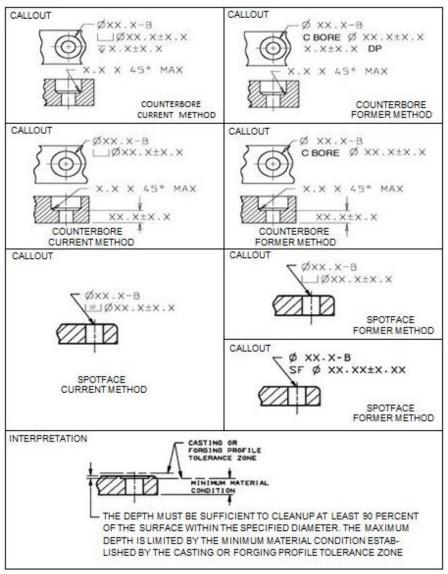


Figure 17 - Counterbore Or Spotface

THE INFORMATION HEREON IS THE PROPERTY OF CATERPILLAR INC. AND/OR ITS SUBSIDIARIES. WITHOUT WRITTEN PERMISSION, ANY COPYING, TRANSMITTAL TO OTHERS, AND ANY USE EXCEPT THAT FOR WHICH IT IS LOANED, IS PROHIBITED.

INTERPRETATION AND TOLERANCES - DRAWING

DATE

CHG NO

NUMBER

24 MAY 2018

THE INFORMATION WRITTEN

AND TOLERANCES - DRAWING

DATE

CHG NO

1E0011





- **5.7 Sharp Corner On A Flame Cut Part -** For a part showing sharp corners, which are produced by flame cutting, a R1.5 mm MAX (R.06 inch MAX) is permitted on the corner.
- **5.8 HEDC Unit Part Tolerance Table -** The following is the interpretation of tolerances listed in the tolerance table for unit parts on Heavy Excavator Design Center drawings.
- **5.8.1** The size range **OVER** and **INCLUDING** applies to dimensions shown on the unit part detail.
- **5.8.2** The tolerances apply to the dimensions within the specified size range.
- **5.8.3** Tolerance for size dimensions on features of size are interpreted in 1E0012.
- **5.8.4** Tolerances for dimensions that locate features shall be applied to the feature being located. The origin (implied datum) of the locating dimension shall be established using the datum concept as specified in 1E0012.
- **5.8.5 Flatness Tolerance -** The flatness tolerance specified with the tolerance table applies only to the mill surfaces of the unit part.
- **5.8.6** The specified flatness tolerance zone size per 1000 mm of length applies to the total mill surface of the part. The tolerance size is proportionately decreased for parts under 1000 mm in size and proportionately increased for parts over 1000 mm in size. This is a departure from 1E0012 interpretation.
- **5.9** Tolerance for Implied 90 degree or 0 degree basic angle is ±1 degree, unless otherwise specified. (See Paragraph 4.12.1)

### 6.0 ABBREVIATIONS, ACRONYMS, AND SYMBOLS

- **6.1 General Abbreviations, Acronyms, And Symbols -** Abbreviations, acronyms, and symbols used on drawings are listed in Paragraph 6.11. (See Figure 18) Symbols and symbol abbreviation combinations are listed after the abbreviations.
- **6.1.1 Form -** Unless otherwise specified, the same abbreviation or symbol is used for all word forms.

Example: "CONT" for control, controlled, and controls.

"kg" for kilogram and kilograms.

**6.2 Chemical Elements -** Symbols for chemical elements used on drawings. (See Paragraph 6.12)

THE INFORMATION HEREON IS THE PROPERTY OF CATERPILLAR INC. AND/OR ITS SUBSIDIARIES. WITHOUT WRITTEN PERMISSION, ANY COPYING, TRANSMITTAL TO OTHERS, AND ANY USE EXCEPT THAT FOR WHICH IT IS LOANED, IS PROHIBITED.			
	DATE	CHG NO	NUMBER
INTERPRETATION AND TOLERANCES - DRAWING	24 MAY 2018	57	1E0011

### CATERPII I AR INC





- **6.3 Plastic Family Names -** Abbreviations for plastic family names used on drawings. (See Paragraph 6.13)
- **6.4 Rubber Family Names -** Abbreviations for rubber family names used on drawings. (See Paragraph 6.14)
- **6.5 Electronic Terms -** Abbreviations, acronyms, and symbols for electronic terms used on drawings. (See Paragraph 6.15)
- **6.6 Dielectric General Specification Document Identifiers -** Identifiers for Electronic Components used on drawings. (See Paragraph 6.16)
- **6.7 Coupling Series Designation Identifiers -** Identifiers for Coupling Series Identifiers used on drawings. (See Paragraph 6.17)
- **6.8 Hydraulic Group Name Abbreviations And Acronyms -** Abbreviations and acronyms for hydraulic group names used on drawings. (See Paragraph 6.18)
- **6.9 Thread Series -** Designations for thread series used on drawings. (See Paragraph 6.19)
- **6.10** The following symbols are used with the abbreviations that follow. (See Paragraph 6.11)
  - Not to be used on drawings.
  - Symbols shown in bold are used when values are specified and interpretation is clear. The abbreviations shown in (), excluding the (), are always used when no value is specified. On notices when values are specified abbreviations are used.
  - \*\* "T" can be used as the abbreviation for turbocharger to indicate an engine aspiration configuration such as DI-T, PC-T; in all other application "Turbo" is the approved abbreviation.

**Bold Type** Abbreviations, Acronyms, and symbols shown in bold type are preferred.

THE INFORMATION HEREON IS THE PROPERTY OF CATERPILLAR INC. AND/OR ITS SUBSIDIARIES. WITHOUT WRITTEN PERMISSION, ANY COPYING, TRANSMITTAL TO OTHERS, AND ANY USE EXCEPT THAT FOR WHICH IT IS LOANED, IS PROHIBITED.			
	DATE	CHG NO	NUMBER
INTERPRETATION AND TOLERANCES - DRAWING	24 MAY 2018	57	1E0011





### 6.11 General Abbreviations, Acronyms, And Symbols

	Α	
ABBREVIATE		ABBR
ABRASION		ABRS
		_
ABRASION RESISTANT		AR
ABRASION RESISTANT		ARM.
MATERIAL		
ACCELERATION		ACCEL
ACCELERATOR		ACLTR
(FORMERLY ACCEL)		
ACCELEROMETER		ACCLRM
ACCEPT		ACPT
ACCESS		ACS
ACCESSORY		ACC
ACCUGRADE		AG
ACCUGRADE OFFICE		AGO
ACCUMULATOR		ACCUM
ACKNOWLEDGE		ACK
		-
ACRYLIC-STYRENE-		ASA
ACRYLONITRILE		
TERPOLYMER		
ACRYLONITRILE-		ABS
BUTADIENE-STYRENE		
ACTIVE NOISE		AND
		ANR
REDUCTION		
ACTUAL		ACTL
ACTUATION	<b>*</b>	ACT.
ACTUATOR		ACTR
ADAPTER (FORMERLY		ADPTR
•		ADPIK
ADPT)		
ADAPTÍVE CONTROL		ACS
SYSTEM		
ADDENDUM		ADD.
ADDITIONAL (FORMERLY		ADDL
,	•	ADDL
ADTL)		
ADDITIONAL RELAY		ARM.
MODULE		
ADDITIVE		ADDT
ADHESIVE		ADH
ADJACENT		
		ADJT
ADJUST		ADJ
ADJUSTER		ADJ
ADJUSTABLE		ADJ
ADJUSTING		ADJG
ADJUSTMENT		ADJ
		-
ADVANCED FILTRATION		AFSI
SYSTEMS, INC.		
ADVANCED MODULAR		AMOCS
COOLING SYSTEM		
ADVANCED PRODUCT		APQP
		/ (I \ \ \ (I
QUALITY PLANNING		A 0 N I
ADVANCED SHIPMENT		ASN
NOTIFICATION		
ADVANCED TRACKING		ATS
SENSOR		=
JE14001		

ADVANCED VARIABLE	AVTN
NOZZLE TURBINE	
AFTERCOOLER	AFTCLR
(FORMERLY AFCLR)	
AFTERMARKET	AFTMKT
AFTERMARKET	AMID
IDENTIFICATION	
AFTERTREATMENT	AFTM
AFTERTREATMENT	ARD
REGENERATION	
DEVICE	4000
AGGREGATE	AGGR
AGITATOR	AGTR
AIR AIR CARBON ARC	A CAC-A
CUTTING	CAC-A
AIR CLEANER	ACL
AIR CONDITION	A/C
AIR CONDITIONER	A/C
AIR COOLED	ACLD
AIR INLET HEATER	AIH
AIR-TO-AIR	ATAAC
AFTERCOOLER	
ALARM	ALM
ALCOHOL	ALC
ALLIGATOR	ALGTR
ALL WHEEL DRIVE	AWD
ALIGNMENT	ALIGN
ALL WHEEL STEER ALLOWANCE	AWS ALLOW.
ALTERNATE	ALTN
ALTERNATING CURRENT	AC
ALTERNATOR	ALT
ALTITUDE	ALT
AMERICAN BUREAU OF	ABS
SHIPPING	
AMERICAN IRON AND	AISI
STEEL INSTITUTE	
AMERICAN NATIONAL	ANSI
STANDARDS INSTITUTE	A DI
AMERICAN PETROLEUM	API
INSTITUTE AMERICAN SOCIETY FOR	ASTM
TESTING AND	ASTIVI
MATERIALS	
AMERICAN SOCIETY OF	ASME
MECHANICAL	7.5
ENGINEERS	
AMERICAN STANDARD	ASCII
CODE FOR	
INFORMATION	
INTERCHANGE	
AMERICAN TRUCKING	ATA
ASSOCIATION	

THE INFORMATION HEREON IS THE PROPERTY OF CATERPILLAR INC. AND/OR ITS SUBSIDIARIES. WITHOUT WRITTEN PERMISSION, ANY COPYING, TRANSMITTAL TO OTHERS, AND ANY USE EXCEPT THAT FOR WHICH IT IS LOANED, IS PROHIBITED.			
	DATE	CHG NO	NUMBER
INTERPRETATION AND TOLERANCES - DRAWING	24 MAY 2018	57	1E0011





AMERICAN WIRE GAGE		AWG
AMMETER		AMM
	*	
AMPERE	*	A (AMP)
AMPLIFIER		AMPL
AMPLITUDE		AM
MODULATION		7 (IV)
ANALOG		ANLG
AND		&
ANGLE		ANG
		ANO
ANGLE		
441011110		<del></del>
ANGLING		ALG
ANNULAR		ANLR
ANNUNCIATOR		ANN.
ANTENNA		ANT.
ANTI DRIFT		AD
ANTIFREEZE		ANTIFRZ
APPEARANCE		APP
APPLICATION		APPL
APPROVAL		APPVL
APPROVED (FORMERLY		APPD
APVD)		
APPROXIMATE		APPROX
		APR
APRIL		
ARITHMETIC AVERAGE		AA
ARMATURE		ARM.
ARRANGEMENT		AR
ARTICULATED		ART.
ARTICULATED TRUCK		AT.
ARTWORK		ARTWK
AS SOON AS POSSIBLE	•	ASAP
ASBESTOS FREE	•	A/F
ASPHALT		ASPH
ASSEMBLY		AS.
ASSEMBLY AND		ASI
SHIPPING		
INSTRUCTIONS		
ASSEMBLY LEVEL		ALF
FEATUARES		
ASSEMBLY QUALITY		AQE
EVENTS		
		A ENIOD
ASSOCIATION	•	AFNOR
FRANCAISE DE		
NORMALISATION		
ATMOSPHERE		ATM
ATTACHMENT		ATCH
		_
ATTACHMENT READY		ARO
OPTION		
ATTENTION	•	ATTN
AUGER		AGR
AUGUST		AUG
AUSTEMPERED DUCTILE		ADI
IRON		
AUTO REVERSE FAN		ARF
ALITOMATIC		ΔΙΙΙ()
AUTOMATIC BLADE		AUTO.
AUTOMATIC BLADE		ABP

AUTOMATIC			AETA
ELECTRONIC			
TRACTION AID			
AUTOMATIC PARTICLE			APC
COUNTER			
AUTOMATIC			ATC
TEMPERATURE			
CONTROL			
AUTOMOTIVE INDUSTRY			AIAG
ACTION GROUP			711710
AUTOMOTIVE RESEARCH			ARAI
ASSOCIATION OF INDIA			AIXAI
AUTOSHIFT			ASHF
AUXILIARY			AUX
AUXILIARY EQUIPMENT			AEM
MANUFACTURER			ALIVI
AUXILIARY POWER UNIT			APU
			APU
AUXILIARY			
REGENERATION			
DEVICE (SEE			
CATERPILLAR			
REGENERATION			
SYSTEM			
AVERAGE			AVG
AVOIDANCE	_		AVDNCE
	В		
BABBITT			BAB
BACKFLUSH			BF
BACKGROUND DEBUG			BDM
MODE			
BACKHOE			BKHO
BACKHOE LOADER		<b>*</b>	BHL
BACKREST			BKRST
BACKUP			BKUP
BACKUP CONTROL			BCP
PANEL			
BACKWALL			BW
BACKWARD			BKWD
BAFFLE			BAF
BALANCE			BAL
BALLSTUD			BSTUD
BASE UPSTREAM			BUGL
GRAVIMETRIC LEVEL			
BASIC			BSC
BATTERY			BTRY
(FORMERLY BAT.)			
BÀTTERY BACKED (			BB
BATTERY DISCHARGE			BDI
INDICATOR			
BEACON			BCN
BEARING			BRG
BEFORE TOP DEAD			BTDC
CENTER			· = •
BELTED AG TRACTOR			BAT.
			(OBSOLETE)
			( = = = = )

THE INFORMATION HEREON IS THE PROPERTY OF CATERPILLAR INC. AND/OR ITS SUBSIDIARIES. WITHOUT WRITTEN PERMISSION, ANY COPYING, TRANSMITTAL TO OTHERS, AND ANY USE EXCEPT THAT FOR WHICH IT IS LOANED, IS PROHIBITED.				
	DATE	CHG NO	NUMBER	
INTERPRETATION AND TOLERANCES - DRAWING	24 MAY 2018	57	1E0011	





BENCHMARKING GUIDE	BGCC	BRUSH WEAR INDICATOR	BWI
FOR CONTAMINATION		BUCKET (FORMERLY	BKT
			DICI
CONTROL		BUKT)	
BETWEEN	BETW	BUCKET REST BUILD	BKTR
BEVEL	BEV	BUILD	BLD
BILL OF MATERIAL	B/M	BUILDING	♦ BLDG
BIMETALLIC	BMTLC	BULK	BK
BIRMINGHAM WIRE GAGE	BWG	BULKHEAD	BHD
(FORMERLY BWGA)		BULL PLUG	BP
BLACK (FORMERLY B)	BK	BULLDOZER	DOZER
BLADE (FORMERLY BLD)		BUMPER	BMPR
BLEEDER	BLDR	BUNDLE TABLE	BT
BLAST	BL	BUREAU VERITAS	BV
BLOCK	BLK	BURNER	BNR
DI OW OFF	DO.	BUSHING	BSHG
BLUE (FORMERLY BU) BLUE (WIRE COLOR	BLU	BUTT WELD	BW
BLUE (FURIMERLY BU)	BLU		
BLUE (WIRE COLOR	BU	BYPASS	BYP
ONLY)		BYPASS CLOSING	BYPC
BONDED	BND	BYPASS OPENING	BYPO
BOOM	BM	C	2 0
			ODI
BOOM LOWERING	BLCV	CABLE (FORMERLY CA)	CBL
CONTROL VALVE		CABLE CONTROL	CC
BOOSTER	BSTR	CALCULATE	◆ CALC
BOTH ENDS	BE	CALCULATE CALCULATION	CALC
BOTTOM	BOT.	CALIBRATION	CAL
BOUNDARY	BDY	CALIFORNIA AIR	CARB
BOWL	BOL	RESEARCH	
BRACE	BRC	BOARD	
BRACKET	BRKT	CAMDRIVE	CAMDR
BRAKE	BK	CAMERA	CAMR
DDAKE AID DDECCUDE	DK AID DD		
BRAKE AIR PRESSURE	BK AIR PR	CAMSHAFT (FORMERLY	CAMSH
BRAKE HORSEPOWER	BHP	CAM.)	
BRAKE MEAN EFFECTIVE	BMEP	CANADIAN STANDARD	♦ CSA
PRESSURE		ASSOCIATION	
BRAKE OIL PRESSURE	BK OIL PR	CANCELED	◆ CANC
BRAKE OIL	BK OIL TEMP	CANCELED NEVER USED	♦ CNU
TEMPERATURE		CANCELED REPLACED	◆ CRB
BRAKESAVER	BKSVR	BY	
BREAKDOWN	BKDN	CANOPY	♦ CAN.
BREAKER	BRKR	CAPACITY	CAP.
	DIXIX		
(FORMERLY BKR)		CAPACITIVE SENSING	CSE
BREAKOUT	ВКО	ELEMENT	
BREATHER (FORMERLY	BRTHR	CARBON EQUIVALENT	CE
BRTH)		(FORMERLY C.E.)	
BRIDGE	BRDG	CARBON FREE DEPTH	CFD
	_		
BRINELL	BR	CARBURETOR	CARB
BRINELL HARDNESS	HBW	CARBURIZE (FORMERLY	CARB
NUMBER (FORMERLY		CARBZ)	
BHN)		CAROUSEL ROD	CRC
BRITISH STANDARD	♦ BSI	CHANGER	00
	<b>₹</b> DOI		CRG
INSTITUTION		CARRIAGE	
BRITISH THERMAL UNIT	BTU	CARRIER	CARR
BRONZE	BRZ	CARTRIDGE (FORMERLY	CRTG
BROOM	BRM	CTG)	
BROWN	BR	CASTING	CSTG
		CASTING	0319
BROWN SHARP GAGE	♦ BS		
(FORMERLY B & S GA)			
			1
	DECALIC THE DECEDENT OF CATED	PILLAR INC. AND/OR ITS SUBSIDIARIES. WITHOUT WRITTEN	

THE INFORMATION HEREON IS THE PROPERTY OF CATERPILLAR INC. AND/OR ITS SUBSIDIARIES. WITHOUT WRITTEN PERMISSION, ANY COPYING, TRANSMITTAL TO OTHERS, AND ANY USE EXCEPT THAT FOR WHICH IT IS LOANED, IS PROHIBITED.				
	DATE	CHG NO	NUMBER	
INTERPRETATION AND TOLERANCES - DRAWING	24 MAY 2018	57	1E0011	





CAT INTEGRATED  OBJECT DETECTION  SYSTEM (REPLACES  SSOD) (OSSOLETE USE  (ODS)  CAT GRADE CONTROL  CATALYST  C			_	
SYSTEM (REPLACES SOD) (OSSOLETE USE IODS) SOD) (OSSOLETE USE IODS) CAT GRADE CONTROL CATALYST CATALYS CATALYST CATALYST CATALYST CATALYST CATALYST CATALYST CATALYST	CAT INTEGRATED	CIODS	CIRCUIT CKT	
SSOD) (OBSOLETE USE IODS) CAT GRADE CONTROL CAT PRODUCTION MEASUREMENT CATALYTIC CATALYTIC CATERPILLAR TRIMBLE CONTROL CONTROL TECHNOLIGIES CELLS PER SQUARE INCH CELLULAR CELLULAR CELLULAR CELLULAR CONTROL TECHNOLIGIES CELLS PER SQUARE INCH CELLULAR CELLULAR CELLULAR CELLULAR COLLAM CLEANER CLLAM CLEANER CLLAM CLEANER CLLASSIC CLLA CLEANER CLLAR MODULE CLEANER CLEANER CLEANING CELLULAR CELLULAR CELLULAR CELLULAR CELLULAR CLEANER CLLAR MODULE CLEANER CLEANER CLEANER CLEANER CLEANER CLEANER CLEANER CLEANING CLEANER CLEANING CLEANING CLEANING CLEANING CLEANING CLOCKWISE COW CLOCKWISE COW CLOCKWISE COW CLOCKWISE COW CLOCKWISE COW CLOCKWISE COW CLOSED-CIRCULT TV CCTV CLOSED-CRANKCASE CCV COLOTER CLOCKWISE CCW CLOSED-CIRCULT TV CCTV CLOSED-CIRCULT CLOSED-CIRCULT CLOSED-CIRCULT CLOSED-CIRCULT CLETT	OBJECT DETECTION		CIRCUIT BREAKER CB	
SSOD) (OBSOLETE USE IODS) CAT GRADE CONTROL CAT CRODUCTION MEASUREMENT CATALYTIC CATLAYTIC CATLAYTIC CATLAYTIC CONTROL TECHNOLIGIES CELLS PER SQUARE INCH CELLULAR CELLS PER SQUARE INCH CELLULAR CELLULAR CELLULAR CELLULAR CELLULAR CELLULAR COLLAR CIRCULAR CLAMSHELL (FORMERLY CLAMS CLEANER CLINR CLEANER CLINR CLEANER CLINR COLLAR COLLAR CLEANER CLIAMS CLAMS CLEANER CLIAMS CLEANER CLIAMS CLEANER CLIAMS COLLAR CLEANER CLIAMS CLEANER CLIAMS COLLAR CLEANER CLIAMS CLEANER CLIAMS CLEANER CLIAMS COLLAR CLEANER CLIAMS CLIAMS CLEANER CLIAMS CLI	SYSTEM (REPLACES		CIRCUIT DATA TABLE CDT	
IODS    CAT GRADE CONTROL   CAT GRADE CONTR			CIRCULAR CIRC	
CAT GRADE CONTROL CAT PRODUCTION MEASUREMENT CATALYTIC CATALYTIC CATERPILLAR TRIMBLE CTCT CONTROL TECHNOLIGIES CELLS PER SQUARE INCH ECELULUR CELSIUS (SEE DEGREE CELSIUS) CENTER BALL CHAPTER FALL CENTER BALL COUNTER BALL CENTER BALL CENTER BALL CENTER BALL CENTER BALL CENTER BALL CENTER BALL COUNTER BALL CENTER BALL CENTER BALL CENTER BALL CENTER BALL COUNTER BALL CENTER BALL COUNTER BALL COUNTER BALL COUNTER BALL CONTER BALL CENTER BALL COUNTER BALL COUNTER BALL COUNTER BALL CENTER BALL CENTER BALL CENTER BALL COUNTER BALL COUNTER BALL COUNTER CLOCKWISE COUNTER CLOCKWISE COUNTER CLOCKWISE COUNTER COUNTER CLOCKWISE COUNTER				
CATALYST		CGC		
MEASUREMENT CATALYST CATALYTIC CATALYTIC CATALYTIC CATEPILLAR TRIMBLE CTCT CONTROL TECHNOLIGIES CELLS PER SQUARE INCH GELLULAR CELSIUS CELLS PER SQUARE INCH CELS PER SQUARE INCH GELLULAR CELSIUS CELLS PER SQUARE INCH CELS PER SQUARE INCH GELLULAR CELSIUS CELLS PER SQUARE INCH CELS PER SQUARE INCH GELLULAR CELSIUS CELLS PER SQUARE INCH CELS PER SQUARE INCH INCH GELLULAR CELS PER SQUARE INCH INCH CELS PER SQUARE CELS PER SQUARE INCH INCH CELS PER SQUARE CENTER BALL CBH CENTER BALL CBH CLEAN GAS INDUCTION CICEAN GAS INDUCTION CICEA				
CATALYTIC   CTLTC   CTLTC   CATALYTIC   CTLTC   CATALYTIC   CTLTC   CATALYTIC   CTLTC   CLASS   CLA   CLAM)   CTLTC   CLASS   CLA   CLASSIC   CLA   CLEANER   CLNR   CELLULAR   CELLULAR   CELLULAR   CELLULAR   CELLULAR   CELLULAR   CELSIUS   CLAN EMISSIONS   CEM   MODULE   CELS   CEAN EMISSIONS   CEM   CELS   CEAN EMISSIONS   CEM   CELS   CEAN EMISSIONS   CEM   CELS   CEAN EMISSIONS   CEM   CELSIUS   CEM   CLEAN EMISSIONS   CEM   CE		CPIVI	CITIZEN BAND	
CATALYTIC   CATEPILLAR TRIMBLE   CTCT   CALSS   CL CASS   CL CASSIC   CLASSIC   CLEANER   CLEANING   C		OTL OT	OLAM CUELL (FORMERLY OLMOLI	
CELLULAR CELSIUS (SEE DEGREE CELSIUS) (COATED COATED COUNTER CERT COALESCE CLSE COENTRAL CERT COLD COMPENSION COLD SOULED CR (CHANGE CHAR COLLUMN COLD WEATHER CW (CHANGED CHAR COLLUMN			CLAM SHELL (FORMERLY CLMSH	
CELLULAR CELSIUS (SEE DEGREE CELSIUS) (COATED COATED COUNTER CERT COALESCE CLSE COENTRAL CERT COLD COMPENSION COLD SOULED CR (CHANGE CHAR COLLUMN COLD WEATHER CW (CHANGED CHAR COLLUMN			CLAM)	
CELLULAR CELSIUS (SEE DEGREE CELSIUS) (COATED COATED COUNTER CERT COALESCE CLSE COENTRAL CERT COLD COMPENSION COLD SOULED CR (CHANGE CHAR COLLUMN COLD WEATHER CW (CHANGED CHAR COLLUMN		СТСТ	CLASS → CL	
CELLULAR CELSIUS (SEE DEGREE CELSIUS) (COATED COATED COUNTER CERT COALESCE CLSE COENTRAL CERT COLD COMPENSION COLD SOULED CR (CHANGE CHAR COLLUMN COLD WEATHER CW (CHANGED CHAR COLLUMN			CLASSIC CLA	
CELLULAR CELSIUS (SEE DEGREE CELSIUS) (COATED COATED COUNTER CERT COALESCE CLSE COENTRAL CERT COLD COMPENSION COLD SOULED CR (CHANGE CHAR COLLUMN COLD WEATHER CW (CHANGED CHAR COLLUMN	TECHNOLIGIES		CLEANER CLNR	
INCH   CELIULAR   CELL   CLEAN EXHAUST   CEL   CLEAN EXHAUST   CEL   CLEAN EXHAUST   CEL   CLEAN GAS INDUCTION   CLEAN GAS INDUCTI	CELLS PER SQUARE	CPSI	CLEAN EMISSIONS CEM	
CELSIUS (SEE DEGREE CELSIUS) CENTER BALL CB CENTER BALL CB CLEARANCE CENTER BALL CBHT CENTER COCWISE CCWUE CLOCKWISE LEAD END CCWUE CLOCKWISE CCWUE CLOCKBO-CIRCUIT TV CCV CENTER CLOCKWISE CCWUE CLOSED CRANKCASE CCV CENTER HOLE CH CENTER FLANGE CL CENTER FLANGE CL CENTER FLANGE CL CENTINITATION CL CENTERSHIFT CSHIFT COALESCE CLSE COATED COATED CODE OF FEDERAL CFR CENTISTOKES CST CODE OF FEDERAL CFR CENTRAL CTL MULTIPLE ACCESS CODE DIVISION CDMA CENTRALIZE CTZ COLD CRANKING AMPS CCA CENTRIFUGAL CENTER COLD FINISHED CF CENTIFICATION CENTIFIER CENTER COLD FINISHED CF CERTIFICATION CENTER COLD FINISHED CF CERTIFICATION CENTER COLD FINISHED CF CHAMBER CHAMB SURFACE COLD JUNCTION CJC CHAMBER CHAM COMPENSATION CHAMFER OR RADIUS C/R CHANGE CHG CHAR COLD START CST CHAMB CHARCTER CHAR COLD START CST CHANGE CHAR CHAR COLD START CST CHAR CHARCTER CHAR COLD START CST CHAR CHARCTER CHAR COLD START CST CHAR CHARCTER CHAR COLD START CST CHARS CHAR COLD START CST CHAR CHARCTER CHAR COLD START CST CHAR CHARCTER CHAR COLD START CST CHARS CHAR COLD START CST CHAR CHAR COLD START CST CHAR CHARCTER CHAR COLLESION COLSN COLSN COLSN COMBINATION COL CHARSINO CHARSINO CHAR CHECK CHIK COLUMN COL CHARSINO CHAR CHECK CHIK COLUMN COL COMBINATION COMBINATION CMB CHICAL CHECK CHIK COLUMN COL COMBINATION CMB CHINALLE CHICAL CHIK CHICAL CHIK COMBINATION CMB CHINALLE CHICAL CHIK CHICAL CHIK COMBINISTION CMB CHICAL C	INCH			
CELSIUS  (SEE DEGREE CELSIUS)  CENTER BALL  CENTER FLANGE  CENTER FLANGE  CENTER HOLE  CH  CENTER HOLE  CH  CENTERSHIFT  COALESCE  CO	CELLULAR	CELL	CLEAN EXHAUST CEI	
(SEE DEGREE CELSIUS) CENTER BALL CENTER COLOCKWISE COUNTER CLOCKWISE COUNTER COUNTER CLOCKWISE COUNTER COUNTER COUNTER CLOCKWISE COUNTER C				
CÉNTER         CTR         CLEANING         CLNG           CENTER BALL         CB         CLEARANCE         CLRN           CENTER BALL         CBHT         CLOCKWISE         CW           HYDRAULIC         CUCCKWISE         CCWLE           TILT         COUNTER CLOCKWISE         CCWLE           CENTER BALL MANUAL         CBMT         LEAD END           TILT         CLOSED-CIRCUIT TV         CCTV           CENTER HANGE         CFLG         CLOSED CRANKCASE         CCV           CENTER HOLE         CH         VENTILATION         CCTC           CENTER HOLE         CH         VENTILATION         CCTC           CENTERSHIFT         CSHIFT         COALESCE         CLSE           CENTINGRADE         COATED         CTD         COTD           (SEE DEGREE CELSIUS)         COME OF FEDERAL         CFR           CENTINGRADE         CS         COATED         CTD           CENTINGRADE         CS         CODE DIVISION         CDMA           CENTINGRADE         CS         CSDE DIVISION         CDMA           CENTINGRADE         CST         COLD CRANKING AMPS         CCA           CENTINGRADE         CST         COLD CRANKING AMPS         CCA<				
CENTER BALL CENTER BALL CENTER BALL CENTER BALL CENTER BALL CENTER BALL TILT CENTER BALL MANUAL CENTER BALL MANUAL CENTER BALL MANUAL CENTER BALL MANUAL CENTER FLANGE CENTER FLANGE CENTER HOLE CENTER HOLE CENTER HOLE CENTER COLL CENTERSHIFT CENTERSHIFT CENTERSHIFT CENTERSHIFT CENTERSHIFT CENTERSHIFT CENTERSHIFT CENTINGRADE CENTERSHIFT CENTINGRADE CENTERSHIFT CENTINGRADE CENTERLINE CENTERSHIFT CENTINGRADE CENTERLINE CENTERSHIFT CENTINGRADE CENTERSHIFT CENTINGRADE CENTERSHIFT CENTINGRADE CENTERSHIFT CENTINGRADE CENTERSHIFT CENTINGRADE CENTERSHIFT CENTINGRADE CENTERSHIFT COALESCE CLSE COBE OF FEDERAL CFR CENTINGRADE CODE OF FEDERAL CFR CODE DIVISION CDMA CENTRAL CENTRAL CTL MULTIPLE ACCESS CCA CENTRIFUGAL COLD FINISHED CFS CHAMBER COLD FINISHED CFS CHAMBER (FORMERLY CHAMB SURFACE CHAMBER CHAMB CHAMBER CHAM COMPENSATION CHAMFER CHAMB CHAMFER CHAM COMPENSATION CHAMFER CHAM COMPENSATION CHARGE CHARG CHARGE CHARG CHARG CHARG CHARGE CHARG COLL CHOR COLD COLD COLD COLD COLD COLD COLD COLD		CTP	0.544	
TILT CENTER BALL MANUAL TILT CENTER FLANGE CFLG CENTER HOLE CENTINGRADE CENTER HOLE CENTINGRADE CENTINGRADE CENTINGRADE CENTINGRADE CENTINGRADE CENTINGRADE CENTINGRADE CENTER CENTER CENTISTOKES CENTIMETER CENTISTOKES CENTER COLD FINISHON CENTRAL CENTERLUSE CENTER COLD FINISHON CENTRAL CENTER COLD FINISHED CF CENTIFICATION CERT COLD FINISHED CF CENTIFICATION CERT COLD FINISHED CF CHAMBER (FORMERLY CHAMB SURFACE COLD JUNCTION CHAMFER OR RADIUS CAR COLD PLANNER COLD PLANNER CP CHANGE CHANGE CHAG COLD START CST CHANGE CHAG CHARCTER CHAR COLLECTOR CHARCTER CHAR COLLECTOR CHARSIS CHAS DISPLAY CHARSIS CHAS DISPLAY CHAMB COMBINATION COL CHARSIS CHAS DISPLAY CHAMB COMBINATION COL CHARSIS CHAS DISPLAY CHAMB COMBINATION COL CHECK CHECK CHECK CHAK COLUMN COL CHARGING CHARCTER CHAS COLLESION COL COMBINATION COL CHEMICAL AGENT CARC COMBINATION COL CHAMB CHICK CHICK CHUK CHUK CHUK CHUK CHUK CHUK CHUK CH			CLEADANCE CLING	
TILT CENTER BALL MANUAL TILT CENTER FLANGE CFLG CENTER HOLE CENTINGRADE CENTER HOLE CENTINGRADE CENTINGRADE CENTINGRADE CENTINGRADE CENTINGRADE CENTINGRADE CENTINGRADE CENTER CENTER CENTISTOKES CENTIMETER CENTISTOKES CENTER COLD FINISHON CENTRAL CENTERLUSE CENTER COLD FINISHON CENTRAL CENTER COLD FINISHED CF CENTIFICATION CERT COLD FINISHED CF CENTIFICATION CERT COLD FINISHED CF CHAMBER (FORMERLY CHAMB SURFACE COLD JUNCTION CHAMFER OR RADIUS CAR COLD PLANNER COLD PLANNER CP CHANGE CHANGE CHAG COLD START CST CHANGE CHAG CHARCTER CHAR COLLECTOR CHARCTER CHAR COLLECTOR CHARSIS CHAS DISPLAY CHARSIS CHAS DISPLAY CHAMB COMBINATION COL CHARSIS CHAS DISPLAY CHAMB COMBINATION COL CHARSIS CHAS DISPLAY CHAMB COMBINATION COL CHECK CHECK CHECK CHAK COLUMN COL CHARGING CHARCTER CHAS COLLESION COL COMBINATION COL CHEMICAL AGENT CARC COMBINATION COL CHAMB CHICK CHICK CHUK CHUK CHUK CHUK CHUK CHUK CHUK CH			CLEARANCE CLRN	
TILT CENTER BALL MANUAL TILT CENTER FLANGE CFLG CENTER HOLE CENTINGRADE CENTER HOLE CENTINGRADE CENTINGRADE CENTINGRADE CENTINGRADE CENTINGRADE CENTINGRADE CENTINGRADE CENTER CENTER CENTISTOKES CENTIMETER CENTISTOKES CENTER COLD FINISHON CENTRAL CENTERLUSE CENTER COLD FINISHON CENTRAL CENTER COLD FINISHED CF CENTIFICATION CERT COLD FINISHED CF CENTIFICATION CERT COLD FINISHED CF CHAMBER (FORMERLY CHAMB SURFACE COLD JUNCTION CHAMFER OR RADIUS CAR COLD PLANNER COLD PLANNER CP CHANGE CHANGE CHAG COLD START CST CHANGE CHAG CHARCTER CHAR COLLECTOR CHARCTER CHAR COLLECTOR CHARSIS CHAS DISPLAY CHARSIS CHAS DISPLAY CHAMB COMBINATION COL CHARSIS CHAS DISPLAY CHAMB COMBINATION COL CHARSIS CHAS DISPLAY CHAMB COMBINATION COL CHECK CHECK CHECK CHAK COLUMN COL CHARGING CHARCTER CHAS COLLESION COL COMBINATION COL CHEMICAL AGENT CARC COMBINATION COL CHAMB CHICK CHICK CHUK CHUK CHUK CHUK CHUK CHUK CHUK CH		СВНТ	CLOCKWISE CW	
CENTER BALL MANUAL TILT TILT CENTER FLANGE CFLG CENTER HOLE CH CENTER HOLE CH CENTERSHIFT CSHIFT CSHIFT COALESCE COATED CENTINGRADE COMPEDIVISION CDMA CDMA CENTRAL CENTRICUGE CENTIFICATION CERT COLD DRAWN CD COLD DRAWN CD COLD CRANKING AMPS CCA COLD DRAWN CD COLD COLD FINISHED CF COLD FINISHED CF COLD FINISHED CF COLD FINISHED CFS COLD JUNCTION CJC CHAMBER CHAMBER CHAMB COMPENSATION CHAMFER OR RADIUS CORPENSATION COMPENSATION CHAMFER OR RADIUS COLD PLANNER CP COLD START CST CHANGE CHARCTER CHAR COLLECTOR COLD WEATHER CW CHARCTER CHAR COLLECTOR COLL CHARGING CHARG CHARCTER CHAR COLLECTOR COLL CHARGING CHARG CHARG CHARCTER CHAR COLLECTOR COLL CHARGING CHARG COLL CHARGING CHARG COLL CHARGING CHARG COLL CHARGING CHARG COLL COMBINATION COL CHECK CHECK CHK COLUMN COL COMBINER CMB COMBUSTION COMB CHICA COMBUSTION COMB CHICA COMBUSTION COMB COMB COMBUSTION COMB COMB COMBUSTION COMB COMB COMB COMBUSTION COMB COMB COMB COMBUSTION COMB COMB COMB COMBUSTION COMB COMB COMB COMB COMB COMB COMB COMB			CLOCKWISE LEAD END CWLE	
TILT				
CENTER FLANGE CENTER HOLE CH CENTERLINE CL CENTERSHIFT CSHIFT CSHIFT COALESCE COATED CENTINGRADE (SEE DEGREE CELSIUS) CENTINGRADE CENTINGRADE CENTINGRADE CENTINGRADE CENTINGRADE CENTINGRADE CST CENTINGRADE CENTRAL CTL MULTIPLE ACCESS CCA CENTRIFUGAL CENTRIFUGAL CENTRIFUGAL CENTRIFUGE CENTIFICATION CERT CHAMBER (FORMERLY CHAMBE CHAMBER) CHAMFER CHARFE CHARFE CHARFE CHARFE CHARFE CHARFE CHARRE COLLECTOR COLL CHARRE CHARRE CHARRE COLLECTOR COLL CHARRE CHARS CHARRE COLLECTOR COLL CHARRE CHARRE CHARRE COLLECTOR COLL CHARRE CHARS CHARS CHARS CHARS CHARS CHARS CHARS CHARS COLLECTOR COLL CHARRE COMBUSTION COMB CHEMICAL AGENT CARC COMBINATION COMB CHEMICAL AGENT CARC COMBINATION COMB CHEMICAL AGENT CARC COMBINATION COMB CHEMICAL AGENT COMBINATION COMB CHEMICAL AGENT COMBINATION COMB COMBAND COMB COMMAND COMB COMB COMB COMMAND COMB COMB COMMAND COMB COMB COMB COMMAND COMB COMB COMB COMB COMB COMB COMB COMB		CBMT		
CENTER HOLE CENTERLINE CENTERSHIFT CSHIFT CSHIFT COALESCE COATED COALESCE COATED CODE OF FEDERAL CFR CENTIMETER CENTIMETER CENTIMETER CENTIMETER CENTIMETER CENTIMETER CENTIMETER CENTIMETER CENTRAL CENTRAL CENTRAL CTL CENTRALIZE CENTRAL COLD CRANKING AMPS CENTRIFUGAL CENTRIFUGAL CENTRIFUGAL CENTRIFUGAL CENTRIFUGAL CENTRIFUGAL CENTRIFUGAL CENTRIFUGAL CENTRIFUGAL COLD DRAWN CENTRIFUGAL COLD DRAWN CD CENTRIFUGAL COLD FINISHED CF CENTRIFUGAL CHAMBER (FORMERLY CHAMB SURFACE CHAMBER (FORMERLY CHAMB CHAMFER CHAM COMPENSATION CHAMFER CHAM COMPENSATION CHAMFER CHAM COMPENSATION CHAMFER CHANGE CHG COLD PLANNER CP COLD DRAWN COCOLD PLANNER COCOLD PLANNER CP COLD DRAWN COMPENSATION COMPENSATION COMPENSATION COLD PLANNER CP COLD START CST CHANGE CHARG COLD START CST CHANGE CHARG COLD WEATHER CW CHARACTER CHARG CHARG COLLECTOR CHARG CHARG CHARG CHARG COLLISION COLSN CHARSY CHAS DISPLAY COMBINATION COMB CHARCY COMBINATION COMB CHARCY COMBINATION COMB CHEMICAL AGENT CARC COMBINATION CMB CHEMICAL AGENT CARC COMBINATION CMB COMMAND CMD SOCIETY COMMAND CMC COMMAND CMC CCS COMMAND COMB CHOME COMMAND COMB COMMAND COMMAND COMB COMMAND COMMAND COMB COMMAND COMMAND COMB COMMAND COM				
CENTERLINE CENTIRISANDE CENTINGRADE (SEE DEGREE CELSIUS) CENTIMETER CENTINTOKES CENTISTOKES CENTRAL CENTRIFUGA CENTRIFUGA CENTRIFUGA CENTRIFUGA CHAMBER (FORMERLY CHAMB CHAMFER C CHAM CHAMFER C CHG CHARGE CHAG CHARGE CHAG CHARGE CHAG CHARG CHARCTER CHAR CHARCTER CHAR CHARCTER CHAR COLD START CST CHARCTER CHAR COLD START CST CHARCTER CHAR COLD START CST CHARCTER CHAR COLD WEATHER CW CHARACTER CHAR COLD WEATHER COLL CHAR COLL COLD CHACT COLD CHARCT COLD CHARCT COLD COLD COLD COLD COLD COLD COLD COLD	CENTER FLANGE	CFLG	CLOSED CRANKCASE CCV	
CENTIMETER CELSIUS)  CENTIMETER CM REGULATIONS  CENTRAL CTL MULTIPLE ACCESS  CENTRIPUGAL CNTFGL COLD PRAWN CD  CENTRIPUGAL COLD FINISHED CF  CERTIFICATION CERT COLD FINISHED CF  CHAMBER (FORMERLY CHAMB SURFACE COLD JUNCTION CJC  CHAMBER (FORMERLY CHAMB SURFACE COLD FINISHED CFS  CHAMFER CHAM COMPENSATION  CHAMFER CHAM COMPENSATION  CHAMFER OR RADIUS C/R COLD PLANNER CP  (OBSOLETE) COLD WEATHER CW  CHARACTER CHAR COLD WEATHER CW  CHARACTER CHAR COLLECTOR COLL  CHARGING CHRG COLLISION COLSN  CHARRY V NOTCH CVN COLOR MULTI-PURPOSE CMPD  CHASSIS CHAS DISPLAY  CHECK CHAS DISPLAY  CHECK CHAS COMBINATION CMB  CHECK VALVE CV COMBINATION CMB  CHINA CLASSIFICATION CCS  COMMAND COMB.  CHUCK CHUK STEERING  COMMERCIAL COML	CENTER HOLE	CH	VENTILATION	
(SEE DEGREE CELSIUS)  (SEE DEGREE CELSIUS)  CENTIMETER  CENTISTOKES  CENTRAL  CENTRAL  CENTRAL  CENTRAL  CENTRAL  CENTRIPUGAL  COLD FINISHED  CF  COLD FINISHED  CF  COLD FINISHED  CFS  COLD JUNCTION  CJC  CHAMBER (FORMERLY  CHAMB  COULD JUNCTION  CJC  CHAMFER  CHAM  COMPENSATION  CHAMFER OR RADIUS  C/R  COLD PLANNER  CP  COLD PLANNER  CP  COLD START  CST  CHANGED  CHAG  COLD WEATHER  CW  CHARACTER  CHAR  COLLECTOR  CHARGING  CHARG  CHRG  COLLSTART  COLL  CHARGING  CHARG  COLL  CHARGING  CHARG  COLL  CHARG  COLL  CHASSIS  CHAS  DISPLAY  CHECK  CHAS  CHECK  CHAS  COMBINATION  COMB  COM	CENTERLINE	CL	CLUTCH CL	
(SEE DEGREE CELSIUS)  (SEE DEGREE CELSIUS)  CENTIMETER  CENTISTOKES  CENTRAL  CENTRAL  CENTRAL  CENTRAL  CENTRAL  CENTRIPUGAL  COLD FINISHED  CF  COLD FINISHED  CF  COLD FINISHED  CFS  COLD JUNCTION  CJC  CHAMBER (FORMERLY  CHAMB  COULD JUNCTION  CJC  CHAMFER  CHAM  COMPENSATION  CHAMFER OR RADIUS  C/R  COLD PLANNER  CP  COLD PLANNER  CP  COLD START  CST  CHANGED  CHAG  COLD WEATHER  CW  CHARACTER  CHAR  COLLECTOR  CHARGING  CHARG  CHRG  COLLSTART  COLL  CHARGING  CHARG  COLL  CHARGING  CHARG  COLL  CHARG  COLL  CHASSIS  CHAS  DISPLAY  CHECK  CHAS  CHECK  CHAS  COMBINATION  COMB  COM	CENTERSHIFT	CSHIFT		
(SEE DEGREE CELSIUS) CENTIMETER CENTISTOKES CENTRAL CENTRAL CENTRAL CENTRAL CENTRAL CENTRIFUGAL COLD DRAWN CD CERT COLD FINISHED CF CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	CENTINGRADE			
CÉNTIMETER       Cm       REGULATIONS         CENTISTOKES       cSt       CODE DIVISION       CDMA         CENTRAL       CTL       MULTIPLE ACCESS         CENTRALIZE       CTZ       COLD CRANKING AMPS       CCA         CENTRIFUGAL       CNTFGL       COLD DRAWN       CD         CENTRIFUGE       CENTFG       COLD FINISHED       CF         CENTRIFUGE       CENTEG       COLD FINISHED       CF         CENTRIFUGE       CERT       COLD FINISHED       CF         CENTRIFUGE       CERT       COLD FINISHED       CFS         CHAMBER (FORMERLY       CHAMB       SURFACE       CFS         CHAMBER (FORMERLY       CHAMB       SURFACE       COLD JUNCTION       CJC         CHAMBER (FORMERLY       CHAMB       COMPENSATION       CJC         CHAMBER (FORMERLY       CHAMB       COLD JUNCTION       CJC         CHAMBER (FORMERLY       CHAM       COMPENSATION       CJC         CHAMBER (FORMERLY       CHAM       COMPENSATION       CJC         CHAMBER (FORMERLY       CHAM       COMPENSATION       CJC         CHAMFER OR RADIUS       C/R       COLD JUNCTION       CJC         CHAMFER OR RADIUS       C/R       COLD ROLL				
CENTISTOKES CENTRAL CTL CENTRAL CENTRAL CENTRAL CENTRIFUGAL CENTRIFUGAL CENTRIFUGE CERT COLD FINISHED CFS CHAMBER (FORMERLY CHAMB COMPENSATION CHAMFER CHAM COMPENSATION CHAMFER OR RADIUS C/R CHANGE CHANGE CHAR CHAR COLD FINISHED CFS COLD JUNCTION CJC CHAMFER COLD JUNCTION CJC CHAMFER CHAM COMPENSATION CHAMFER CHAM COMPENSATION CHANGE CHG COLD START CST CHANGED CHGD CHGD COLD WEATHER CW CHARACTER CHAR COLLECTOR CHARACTER CHAR COLLECTOR CHARPY V NOTCH CVN CHASSIS CHAS DISPLAY CHECK CHECK CHK COLD CHEMICAL AGENT CARC COMBINATION CMB CHEMICAL AGENT CARC COMBINATION COMB COMBINATION COMB COMB COMBINATION COMB COMB COMMAND COMMAND COMB COMMAND COMB COMMAND COMMAND COMB COMMAND COMMAND COMB COMMAND		cm		
CENTRAL CENTRALIZE CENTRIFUGAL CENTRIFUGAL CENTRIFUGE CENTRIFUGE CERTIFICATION CERT CHAMBER (FORMERLY CHAMB CHAMFER COLD PLANNER CP COLD PLANNER CP COLD START CST CHANGED CHARACTER CHAR COLLECTOR CHARACTER CHAR COLLECTOR CHARACTER CHAR COLLECTOR CHARGING CHARG CHASSIS CHAS DISPLAY CHECK CHAS CHECK CHK COLUMN COLOR MULTI-PURPOSE CMPD CHASSIS CHAS DISPLAY CHECK CHK COLUMN COL CHABCOLLECTOR COL CHABCOLLECTOR COLL CHABCOLLECTOR COLL CHASSIS CHAS DISPLAY CHECK CHK COLUMN COL CHECK CHK COMBINATION CMB CHINA CLASSIFICATION CCS COMMAND COMB. CHINA CLASSIFICATION COS COMMAND COMMAND COMMAND COMMAND COMMERCIAL COLOR CHAS CHAS CHAS CHAS CHAS CHAS CHAS COLOR CHAS CHAS CHAS CHAS CHAS COLOR CHAS CHAS CHAS COLOR CHAS CHAS COLOR CHAS CHAS COLOR CHAS CHAS COLOR CHAS CHAS CHAS COLOR CHAS CHAS C	_			
CENTRALIZE CTZ COLD CRANKING AMPS CCA CENTRIFUGAL CNTFGL COLD DRAWN CD CENTRIFUGE CENTFG COLD FINISHED CF CERTIFICATION CERT COLD FINISHED CFS CHAMBER (FORMERLY CHAMB SURFACE CHMBR) COMPENSATION CJC CHAMFER CHAM COMPENSATION CHAMFER OR RADIUS C/R COLD PLANNER CP CHANGE CHG COLD START CST CHANGED CHGD COLD WEATHER CW CHARACTER CHAR COLLECTOR COLL CHARGING CHRG COLLECTOR COLL CHARGING CHRG COLLSION COLSN CHARPY V NOTCH CVN COLOR MULTI-PURPOSE CMPD CHASSIS CHAS DISPLAY CHECK CHK CHK COLUMN COMBINATION CMB CHECK CHC CHK COLUMN COL CHECK VALVE CV COMBINATION CMB CHEMICAL AGENT CARC COMBINER CMB CHINA CLASSIFICATION CCS COMMAND CONTROL COMBINER CMB COMMAND CONTROL CCS COMMAND CONTROL COMBINER CMB COMMAND CONTROL CCS COMMAND CONTROL COMBINER CMB COMMAND CONTROL CCS COMMAND CONTROL CCS COMMAND CONTROL CCS COMMAND COMB COMMAND COMB COMMAND CONTROL CCS COMMAND COMB COMMAND COMMERCIAL COMMAND COMB COMMAND COMMERCIAL CHACTOR COMMERCIAL COMMERCI				
CENTRIFUGE CENTFG COLD BRAWN CD CENTRIFUGE CENTRIFUGE CENTRIFORMORE CENT COLD FINISHED CFS CHAMBER (FORMERLY CHAMB SURFACE COLD JUNCTION CJC COMPENSATION CHAMFER OR RADIUS C/R (OBSOLETE) COLD BRAWN CD COLD JUNCTION CJC COMPENSATION COLD PLANNER CP (OBSOLETE) COLD BRAWN CD COLD BRAWN CD COLD BRAWN CD CJC COLD JUNCTION CJC COMPENSATION COLD PLANNER CP (OBSOLETE) COLD ROLLED CR COLD START CST COLD BRAWN CD COLD BRAWN CD COLD BRAWN CD CD COLD BRAWN CD CD COLD BRAWN CD CD COLD BRAWN CD CD CD COLD BRAWN CD CD CD CD COLD BRAWN CD			WIGHTIPLE ACCESS	
CENTRIFUGE CERTIFICATION CERT CHAMBER (FORMERLY CHAMB CHAMFER COLL FINISHED COLD FINISHED COMPANTION CJC CHAMFER CHAMFER CHAMFER CHAMFER COLL FINISHED COLD FINISHED COMPANTION CJC COL CHAMFER CHAMFER CHAMFER CHAMFER CHAMFER CHAMFER COLD FINISHED COLD FINISHED COMPANTION CJC COL CHAMFER CHAMFER CHAMFER COLD FINISHED COLD FINISHED COLD FINISHER COLD FINISHER COLD FINISHER COLD FINISHER COLD FINISH COLD FI			COLD CRANKING AMPS CCA	
CERTIFICATION CERT CHAMB SURFACE COLD FINISHED CFS CHMBR) CHAMFER CHAM COMPENSATION CJC CHAMFER OR RADIUS C/R (OBSOLETE) COLD PLANNER CP CHANGE CHG COLD START CST CHANGED CHGD COLD WEATHER CW CHARACTER CHAR COLLECTOR COLL CHARGING CHRG COLLISION COLSN CHARPY V NOTCH CVN COLOR MULTI-PURPOSE CMPD CHASSIS CHAS DISPLAY CHECK CHK CHK COLUMN COL CHECK VALVE CV COMBINATION CMB RESISTANT COATING CHINA CLASSIFICATION CCS CHUCK CHUK CHUK CIRCLE CIRC COMMERCIAL COML COMMENTATION CMB COMMENTION COMB COMB COMMENTION COMB COMB COMB COMB COMB COMB COMB COMB				
CHAMBER (FORMERLY CHAMB SURFACE COLD JUNCTION CJC CHAMFER CHAMFER CHAM COMPENSATION CHAMFER OR RADIUS C/R COLD PLANNER CP (OBSOLETE) COLD START CST CHANGED CHARACTER CHAR COLLECTOR COLL CHARGING CHARACTER CHARG COLLISION COLS CHARACTER CHARGING CHASSIS CHAS CHECK CHK CHK COLUMN COLC CHECK CHK CHECK CHK CHK COLUMN COLC CHECK CHK CHECK CHK CHK COLUMN COLC CHECK CHECK CHK COLUMN COLC CHECK CHECK CHK COLUMN CHECK CHECK CHK COMBINATION CMB CHEMICAL AGENT CARC COMBINATION CMB CHINA CLASSIFICATION CCS COMMAND CONTROL CCS COMMAND CONTROL CCS COMMAND CONTROL CCS COMMAND COMB CHICK CIRCLE CIRC COMMERCIAL COML				
CHMBR) CHAMFER CHAMFER OR RADIUS CHAMFER CHANGE CHANGE CHANGE CHAMGE CHAMGE CHAMGED CHAMFER CHARGED CHARACTER CHAR CHARGING CHARG CHARG COLLISION COLS CHAPPY V NOTCH CHASSIS CHAS CHECK CHAS CHECK CHK COLUMN COL CHECK VALVE CV COMBINATION CMB CHEMICAL AGENT CARC COMBINER COMBUSTION COMB COMB COMB COMMAND COMB COMB COMB COMB COMB COMB COMB COMB				
CHAMFER OR RADIUS  CHAMFER OR RADIUS  C/R  (OBSOLETE)  CHANGE  CHANGE  CHANGE  CHANGED  CHGD  CHGD  CHARACTER  CHAR  CHARGING  CHARGY V NOTCH  CHASSIS  CHECK  COLL  CHECK  CHECK  CHECK  CHECK  CHECK  COLL  CHECK  CHECK  CHECK  CHECK  COLL  CHECK  CHECK  CHECK  CHECK  COLL  CHECK  CHECK  COLL  CHECK  CH	,	CHAMB		
CHAMFER OR RADIUS  C/R (OBSOLETE)  CHANGE  CHANGE  CHANGED  CHARACTER  CHARGING  CHARGY V NOTCH  CHECK  CHECK  CHECK  CHECK  CHECK  CHECK  CHINA CLASSIFICATION  SOCIETY  CHUCK  CIRC  COLD PLANNER  CP COLD ROLLED  CR COLD START  CST  COLD WEATHER  CW  COLLECTOR  COLLECTOR  COLLISION  COLLISION  COLOR MULTI-PURPOSE  CMPD  COLOR MULTI-PURPOSE  CMPD  COLOR MULTI-PURPOSE  CMPD  COMBINATION  COL  COMBINATION  COMB  COMBUSTION  COMB  COMBUSTION  COMB  COMMAND  COMB  COMMAND  COMMAND  COMMAND  COMMAND  COMMAND  COMMAND  COMMAND  COMMAND  COMMAND  COMMERCIAL  COMMERCIAL  COMMERCIAL  COMMERCIAL  COML				
CHANGE CHG CHG COLD ROLLED CR CHANGED CHGD COLD START CST CHARACTER CHAR COLLECTOR COLL CHARGING CHRG COLLISION COLSN CHARPY V NOTCH CVN COLOR MULTI-PURPOSE CMPD CHASSIS CHAS DISPLAY CHECK CHK CHK COLUMN COL CHECK VALVE CV COMBINATION CMB CHEMICAL AGENT CARC COMBINER CMB RESISTANT COATING CHINA CLASSIFICATION CCS SOCIETY CHUCK CHUK STEERING COML CIRCLE CIRC COMMERCIAL COML	_			
CHANGE CHANGED CHARACTER CHARACTER CHARGING CHARGY V NOTCH CHASSIS CHECK CHECK CHECK CHECK VALVE CHEMICAL AGENT RESISTANT COATING CHINA CLASSIFICATION SOCIETY CHUCK CIRCLE CHG COLD WEATHER CW COLD WEATHER CW COLLISION COLLSION COLLSION COLOR MULTI-PURPOSE CMPD COLOR MULT	CHAMFER OR RADIUS			
CHANGED CHARACTER CHARACTER CHARGING CHARGING CHARPY V NOTCH CHASSIS CHECK CHECK CHECK CHK CHECK VALVE CHEMICAL AGENT RESISTANT COATING CHINA CLASSIFICATION SOCIETY CHUCK CIRCLE CHAR COLL WEATHER CW COLL COLL COLL COLL COLL COLLSION COLOR MULTI-PURPOSE CMPD COLOR COLOR MULTI-PURPOSE CMPD COLOR		(OBSOLETE)	COLD ROLLED CR	
CHARACTER CHARGING CHARGY V NOTCH CHASSIS CHECK CHECK CHECK VALVE CHEMICAL AGENT RESISTANT COATING CHINA CLASSIFICATION SOCIETY CHUCK CIRCLE CHAR COLLECTOR COLL COLL COLSN COLSN COLOR MULTI-PURPOSE CMPD COLOR MULTI-PURPOSE CMPD COLOR	CHANGE	CHG		
CHARACTER CHARGING CHARGY V NOTCH CHASSIS CHECK CHECK CHECK VALVE CHEMICAL AGENT CHINA CLASSIFICATION SOCIETY CHUCK CIRCLE CHUK CIRCLE COLLECTOR COLL COLL COLL COLSN COLSN COLOR MULTI-PURPOSE CMPD COLOR MULTI-PURPOSE CMPD COLOR	CHANGED	CHGD	COLD WEATHER CW	
CHARGING CHARPY V NOTCH CHASSIS CHECK CHECK CHECK VALVE CHEMICAL AGENT RESISTANT COATING CHINA CLASSIFICATION SOCIETY CHUCK CIRCLE CHECK CHRG COLUMN COL COMBINATION COMB COMBUSTION COMB COMBUSTION COMB COMBUSTION COMB COMBUSTION COMB COMBUSTION COMB COMB COMBUSTION COMB COMBUSTION COMB COMBUSTION COMB COMBUSTION COMB COMMAND COMB COMMERCIAL COMMERCIAL COMMERCIAL COMB COMMERCIAL COMB COMMERCIAL COMB COMS COMMERCIAL COMS COMS COMS COMS COMS COMS COMS COMS	CHARACTER	CHAR		
CHARPY V NOTCH CVN CHASSIS CHAS CHECK CHK CHECK VALVE CV CHEMICAL AGENT CARC CHINA CLASSIFICATION SOCIETY CHUCK CHUK CIRCLE CIRC COMMERCIAL COML COMBUSTION COMBUSTION COMBUSTION COMBUSTION COMBUSTION COMBUSTION COMBUSTION COMMAND COMBUSTION COMBUSTION COMMAND COMBUSTION COMMAND COMBUSTION COMMAND COMBUSTION COMMAND COMMAND COMMAND COMMAND COMBUSTION COMMAND COMMERCIAL COMMERCIAL COMMERCIAL COMMERCIAL COMMERCIAL COMPD				
CHASSIS CHECK CHECK CHECK CHECK CHK CHECK VALVE CV CHEMICAL AGENT RESISTANT COATING CHINA CLASSIFICATION SOCIETY CHUCK CIRCLE CHAS CHAS CHAS COMB COMBINATION COMB COMBUSTION COMB COMBUSTION COMB COMMAND COMD COMMAND COMD COMMAND COMS COMMERCIAL COML				
CHECK CHK CHECK VALVE CV CHECK VALVE CV CHEMICAL AGENT CARC RESISTANT COATING CHINA CLASSIFICATION CCS CHUCK CHUK CIRCLE CIRC  COMBINATION CMB COMBUSTION COMB. COMBUSTION CMD COMMAND CONTROL CCS STEERING COMMERCIAL COML				
CHECK VALVE CV COMBINATION CMB CHEMICAL AGENT CARC COMBINER CMB RESISTANT COATING COMBUSTION COMB. CHINA CLASSIFICATION CCS COMMAND COMTO SOCIETY COMMAND CONTROL CCS CHUCK CHUK STEERING CIRCLE CIRC COMMERCIAL COML				
CHEMICAL AGENT CARC COMBINER CMB RESISTANT COATING COMBUSTION COMB. CHINA CLASSIFICATION CCS COMMAND COMTO SOCIETY COMMAND CONTROL CCS CHUCK CHUK STEERING CIRCLE CIRC COMMERCIAL COML				
RESISTANT COATING CHINA CLASSIFICATION SOCIETY CHUCK CIRCLE CIRC COMBUSTION COMB. COMB. COMMAND COMMAND COMMOD COMMAND COMMAND COMMAND COMMAND COMMAND COMMAND COMMAND COMMERCIAL COMMERCIAL COMMERCIAL COMMERCIAL COMMERCIAL		-		
CHINA CLASSIFICATION CCS COMMAND CMD COMMAND CONTROL CCS COMMAND CONTROL CCS CHUCK STEERING COMMERCIAL COML		CARC		
SOCIETY CHUCK CIRCLE  CHUK CIRCLE  COMMAND CONTROL STEERING COMMERCIAL  COML				
CHUCK CHUK STEERING COMMERCIAL COML		CCS		
CIRCLE CIRC COMMERCIAL COML				
THE INFORMATION HEREON IN THE PROPERTY OF CATERDINARY WAS AND AS TO CHROCIA WITHOUT WINDSTEIN	CIRCLE	CIRC	COMMERCIAL COML	
	THE MESONATION OF THE PARTY OF	ALIO THE DRODESTY OF COM	EDDILLAD INO. AND/OD ITO OUDOIDADICO. WITHOUT WONTEN	

THE INFORMATION HEREON IS THE PROPERTY OF CATERPILLAR INC. AND/OR ITS SUBSIDIARIES. WITHOUT WRITTEN PERMISSION, ANY COPYING, TRANSMITTAL TO OTHERS, AND ANY USE EXCEPT THAT FOR WHICH IT IS LOANED, IS PROHIBITED.				
	DATE	CHG NO	NUMBER	
INTERPRETATION AND TOLERANCES - DRAWING	24 MAY 2018	57	1E0011	





COMMISSION OF THE EUROPEAN COMMISSION COMMON				
COMMUNITIES COMMON COMM COMMON RAIL COMMON	COMMISSION OF THE	◆ CEC	CONTINUOUS FEATURE	CF
COMMON RAIL         CONMONINORAL         CONTINUOUSILY         CVT           COMMON RAIL         CRL         COM         TRANSMISSION         CTR           COMPACT DISC         CDX         CONTOUR         CTR         CONT           COMPACT DISC         CDX         CONTROL         CONT         CONT           COMPACT DISC         CDX         CONTROL         CONT         CONT           COMPACTOR         CMPT         L DRIVE         CPL         CONTAIN           COMPACTOR         CMPT         L DRIVE         CPL         CONTAIN         CONTAIN           COMPACTOR         CMPT         CONTROLLABLE PITCH         CPZ         CONTROLLABLE PI	EUROPEAN		CONTINUOUS PRODUCT	CPI
COMMON RAIL   CORL   CONTINUOUSLY   CVT	COMMUNITIES			
COMMON RAIL COMMUNICATION COMPACT COMMON RAIL COMPACT DISC COMPACT COMP COMPACT COMP COMP COMP COMP COMP COMP C	COMMON	COMM	CONTINUOUSLY	CVT
COMMUNICATION COMPACT DISC COMPACTOR COMPACT				01.
COMPACT COMMON RAIL   COR				
COMPACT DISC				OTD
COMPACT DISC CHANGER COMPACTED GRAPHITE COMPACTED GRAPHITE COMPACTOR COMPACTOR COMPATON COMPANY COMPONENT COMPETE COMPANY COMPETE COMPANY COMPETE COMPANY COMPANY COMPANY COMPONENT COMPANY COMPONENT COMPONEN				
CHANGER COMPACTED GRAPHITE COMPACTOR COMPACTOR COMPACTOR COMPANION COMPENSATING COMP COMPENSATING COMP COMPENSATING COMP COMPENSATOR COMPENSATOR COMPENSATOR COMPONION COMPLETE COMPLETIE MACHINE COMPONION COMPESSED NATURAL COM COMPONION				
COMPACTED GRAPHITE   CG		CDX		CAN
COMPACTOR CMPT COMPANION COMPAN CONTROLLABLE PITCH CPZ COMPANION CMPN CONTROLLABLE PITCH CPZ COMPANY CO COMPANY CO COMPANY CO COMPT CONTROLLABLE PITCH CPZ CONTROLLABLE CPZ CONTROLLABLE CPZ CONTROLLABLE PITCH CPZ CONTROLLABLE PITCH CPZ CONTROLLABLE CPZ CONTROLLABLE PITCH CONTROLLABLE CONTROLLABLE PITCH CONTROLLABLE CO				
COMPANION	COMPACTED GRAPHITE	CG	CONTROLLABLE PITCH	
COMPANION	COMPACTOR	CMPT	L DRIVE	CPL
COMPANY COMPATMENT COMPT COMPENSATING COMP COMPENSATING COMP COMPENSATOR COMP COMPETER COMPENSATOR COMP COMPETER COMPENSATOR COMP CONVERTER CONVERTER CONVENTER COMPLETE COMPLETE COMPLETE COMPLETE COMPLETE COMPONENT C		CMPN	CONTROLLABLE PITCH	CPZ
COMPARTMENT   COMPT   COMPARTMENT   COMPT   COMPENSATING   COMP   COMPENSATING   COMP   COMPENSATIOR   COMP   COMPENSATIOR   COMP   COMVERTER RETARDER   COVERN   COMPLETE   COMPLETE   COMPLETE   COMPLETE   COMPLETE   COMPONENT   COOLANT   COOLANT   COOLANT   COOLANT   COOLANT   COOLANT   COOLANT   COMPONENT   COMPO				
COMPENSATING COMPENSATOR COMPENSATOR COMPENSATOR COMPENSATOR COMPENSATOR COMPETE COMPLETE COMPLETE COMPLETE COMPLETE COMPLETE COMPLETE COMPLETE COMPONENT CO				CR
COMPENSATOR COMPLETE COMPONENT COMPO				
COMPLETE COMPL COMPLETE MACHINE COMPONENT COMP				
COMPLETE MACHINE COMPONENT				
COMPONENT COMPONENT DATA COMMONENT DATA COMMONENT DATA COMMONENT DATA COMMONENT CODIA MANAGER COMPOSITE PART COMPOSITION COMPSSION COMPRESSED NATURAL COMPRESSED NATURAL COMPRESSION COMPUTER AIDED CAES COMPONITE AIDED COMPUTER AIDED COMPUTER AIDED COMPUTER AIDED COMPUTER AIDED CONCENTRATE CONC CORPORATION CORPORATION CONCENTRATE CONC CONCENTRIC CONCENTRIC CONCENTRIC CONCENTRIC CONCENTRIC CONDITIONER CONDITIONER CONDITIONER CONDITIONER CONPIGURATION CONFIGURATION CONFIGURATION CONFIGURATION CONFIGURATION CONFIGURATION CONFORMANCE CONFIGURATION CONFORMANCE CONFIGURATION CONFORMANCE CONFIGURATION CONNECTION	_ = =			CV/RTD TEMP
COMPONENT DATA MANAGER COMPOSITE PART COMPOSITION COMPSITON COMPOSITION COMPSITON COMPSITON COMPSITON COMPSITON COMPSITON COMPRESSED NATURAL GAS COMPRESSION COMPRESSOR COMPRESSION CONCENTRATE CONCE CONCENTRATE CONTENTRATE CONTENTRATE CONTENTRATE CONTENTRATE CONCENTRATE CONTENTRATE CONTEN				
MANAGER COMPOSITIE PART COMPOSITION COMPSITION COMPSSEED NATURAL GAS COMPRESSION CONDESTION CONDESTION CONDESTION CONNECTION CONNECTION CONNECTION CONNECTION CONNECTION CONNECTION CONNECTION CONNECTION CONNECTOR CONNEC				
COMPOSITE PART COMPOSITION COMPSN COMPSN COMPSN COMPSN COMPSSED NATURAL CNG COOLER COOLING CLG COOLING CLG COOLING CCG COOLING CCG COOLING CCG COOLING CCG COOLING CSYSTEM COOLING CSY COOPP COOREOTION COOR COORD COOLING COO	COMPONENT DATA	CDM		
COMPOSITION COMPRESSED NATURAL CNG COMPRESSION COMPRESSOR COMPOSITION CORPOSITION CONCENTRATE CONC CONCENTRATE CONC CONCEPT VERIFICATION CV CONDENSER CONDITIONER CONDER CONDENSER CONDITIONER CONFIGURATION CONFICURATION CONFIGURATION CONFIGURATION CONFIGURATION CONFIGURATION CONFIGURATION CONFIGURATION CONFIGURATION CONFIGURATION CONFICURATION CONCETTOR CONFICURATION CONCETTOR CONCETTOR CONCETTOR CONCETTOR CONCETTOR CONCETTOR CON	MANAGER		COOLANT FLOW	COOL. FLOW
COMPOSITION COMPRESSED NATURAL CONG COMPRESSION COMPRESSOR COMPUTER AIDED CAES COPYRIGHT COPY. CORPORATE CORPORATE CORPORATE CORPORATE CORPORATE CORPORATE CORPORATION CORP SYSTEM COMPUTER AIDED CAPT CORRECTION CORRECTION CORSION COST INFORMATION CIS CONCENTRATE CONC CONCENTRATE CONC CONCENTRATE CONC CONCEPT VERIFICATION CV COUNTERBALANCE COBE CONDITIONER CONDENSER COND CONDENSER CONDITIONER CONDER CONFIGURATION CONFICURATION CONFIGURATION CONFICURATION CONNECTION CONNECTION CONN COUNTERSHAFT CTSHFT CONICAL CONSILE CONN COUNTERSHAFT CTSHFT CONICAL CONSILE CONN COUNTERSHAFT CTSHFT CONICAL CONN COUNTERSHAFT CTSHFT CONICAL CONN COUNTERSHAFT CTSHFT CONICAL CONSILE CONT CONN COUNTERSHAFT CTSHFT CONICAL CONSILE CONT CONN COUNTERSHAFT CTSHFT CONICAL CONSILE CONSILE CONT CONSILE C	COMPOSITE PART	CP	COOLANT	COOL. TEMP
COMPRESSED NATURAL GAS GAS COMPRESSION COMPRESSION COMPRESSION CPRSN COMPRESSION CORRECTION CORRECTION CORRECTION CORRECTION CORRECTION CORRECTION CONCENTRATE CONC CONTERBALANCE COB CONTERBALANCE COB CONTERBALANCE COB COUNTERBALANCE COB COUNTERBALANCE COB COUNTERBORE COUNTERBOR		COMPSN	TEMPERATURE	
GAS COMPRESSION COMPRESSION CPRSN COMPRESSION RATIO COMPRESSOR COMPRESSOR COMPUTER AIDED CAPT PRODUCT CONCENTRATE CONDRATE CONTENTRATE CON				CLR
COMPRESSION CPRSN COMPRESSOR COMPRESSOR COMPUTER AIDED EARTHMOVING SYSTEM CORPORATIO CORPORATIO CORPORATIO CORPORATE CORPORATIO COST INFORMATION CIS SYSTEM CONCENTRIC CONCENTRIC CONCE CONC CONCEPT VERIFICATION CV CONDENSER COND CONDENSER COND CONDET CONDITIONER CONDER CONDER CONDER CONFIGURATION CONFIG CONTERBALANCE COBRE COUNTERBALANCE COBRE COUNTERBORE COUNTERBO		0.10		
COMPRESSION RATIO CR COMPRESSOR COMPR COMPUTER AIDED CAES  EARTHMOVING SYSTEM COMPUTER AIDED COM		CDDSN		
COMPRESSOR       COMPR       COORDINATE SYSTEM       CSY         COMPUTER AIDED       CAES       COPYRIGHT       COPY.         EARTHMOVING       CORPORATE       CORP         SYSTEM       CORPORATION       CORP         COMPUTER AIDED       CAPT       CORRECTION       CORR         PRODUCT       CORC       CORROSION       CRSN         TECHNOLOGY       CONC       COST INFORMATION       CIS         CONCENTRIC       CONC       COST INFORMATION       CIS         CONCENTRIC       CONC       COST OF POOR QUALITY       COPQ         CONDENSER       COND       (FORMERLY CBAL)       COPQ         CONDENSER       COND       (FORMERLY CBAL)       COW         CONDITIONER       CONDR       COUNTERBALANCE       CB         CONFORMANCE       CONF       COUNTERBALANCE       CB         CONFORMANCE       CONF       COUNTERBALANCE       CB         CONFORMANCE       CONF       COUNTERBALANCE       CB         CONFORMANCE       CONF       COUNTERBALANCE       CCW         CONFORMANCE       CONF       COUNTERBALANCE       CCW         CONFORMANCE       CONF       COUNTERBALANCE       CCW				
COMPUTER AIDED       CAES       COPYRIGHT       COPY.         EARTHMOVING       CORPORATE       CORP         SYSTEM       CORPORATION       CORP         COMPUTER AIDED       CAPT       CORRECTION       CORR         PRODUCT       CORC       CORRECTION       CORR         PRODUCT       CONC       CORSION       CRSN         TECHNOLOGY       CONC       COST INFORMATION       CIS         CONCENTRIC       CONC       COST OF POOR QUALITY       COPQ         CONCENTRIC       COND       COUNTERBALANCE       CB         CONDENSER       COND       (FORMERLY CBAL)       COPQ         CONDITIONER       CONDR       COUNTERBORE       CBORE         CONFIGURATION       CONFIG       COUNTERBORE       CBORE         CONFORMANCE       CONF       COUNTERDRILL       CDRILL         CONFORMANCE       CONF       COUNTERSHAFT       CTSHFT         CONFORMANCE       CON       (FORMERLY CTRSHFT)       CONICAL       CONICAL       CONICAL       CDRILL       CDRILL         CONFORMATY EUROPE       CE       COUNTERSINK       CSK       CONICAL       CONN       CONTERSINK       CSK         CONNECTION       CONN				
EARTHMOVING SYSTEM COMPUTER AIDED COMPUTER AIDED PRODUCT TECHNOLOGY CONCENTRIC CONCENTRIC CONDESTR CONDESTR CONDITION CONDITION CONFIG CONFIGURATION CONFIGURATION CONFORMITY EUROPE CONFORMITY EUROPE CONCAL CONN CONN CONN CONTERSHAT CONC CONFORMITY EUROPE CONN CONN CONN CONN CONN CONN CONN CON				
SYSTEM COMPUTER AIDED CAPT PRODUCT PRODUCT TECHNOLOGY CONCENTRATE CONC CONCENTRATE CONCENTRIC CONCEPT VERIFICATION CONDENSER CONDITION CONFIG CONFORMANCE CONFORMANCE CONFORMANCE CONFORMANCE CONFORMANCE CONC CONCENTENTY CONCENTER COND CONTERBORE CONFORMANCE CONFORMANCE CONFORMANCE COND CONCENTERBORE COND CONFORMITY EUROPE CE CONN CONN CONN CONN CONN CONN CONN		CAES		
COMPUTER AIDED       CAPT       CORRECTION       ◆ CORR         PRODUCT       CORROSION       CRSN         TECHNOLOGY       CONC       COST INFORMATION       CIS         CONCENTRATE       CONC       SYSTEM       COPQ         CONCENTRIC       CONC       COST OF POOR QUALITY       COPQ         CONCEPT VERIFICATION       CV       COUNTERBALANCE       CB         CONDITIONER       COND       (FORMERLY CBAL)       COUNTERBALANCE       CB         CONDITIONER       CONDR       COUNTERBORE       CBORE       COWE         CONFIGURATION       CONFIG       COUNTERBORE       CBORE       COW         CONFORMANCE       CONF       COUNTERBORE       CCW       CCW         CONFORMANCE       CONF       COUNTERBORE       CCW       CCW         CONNECTOR       CON       COUNTERBORE       CSK       COUNTERBORE       CCW       COW         CONNECTING       CONN       COUNTERSHAFT       CTWT       COUN				
PRODUCT TECHNOLOGY CONCENTRATE CONC CONCENTRIC CONCEPT VERIFICATION COND CONDITIONER CONFIGURATION CONFIGURATION CONFIGURATION CONFIGURATION CONFIGURATION CONFIGURATION CONFIGURATION CONFORMANCE CONFORMANCE CONFORMANCE CONFORMANCE CONNECTING CONN CONNECTION CONN CONN CONN CONN CONN CONN CONN C				
TECHNOLOGY CONCENTRATE CONC CONCENTRIC CONCEPT VERIFICATION CONDENSER COND CONDITIONER CONDITIONER CONFIGURATION CONFIGURATION CONFIGURATION CONFIGURATION CONFORMANCE CONFORMANCE CONFORMANCE CONL CONNECTING CONN CONN CONN CONN CONN CONN CONN CO	COMPUTER AIDED	CAPT	CORRECTION	
CONCENTRATE CONCENTRIC CONCENTRIC CONCEPT VERIFICATION CV CONDENSER COND CONDITIONER CONDITIONER CONFIGURATION CONFIGURATION CONFORMANCE CONFORMITY EUROPE CONNECTION CONNECTION CONNECTOR CONNECTOR CONSOLE CONSTRUCTION CONSTRUCTION CONSTRUCTION CONSTRUCTION CONTACTOR	PRODUCT			CRSN
CONCENTRATE CONCENTRIC CONCENTRIC CONCEPT VERIFICATION CV CONDENSER COND CONDITIONER CONDITIONER CONFIGURATION CONFIGURATION CONFORMANCE CONFORMITY EUROPE CONNECTION CONNECTION CONNECTOR CONNECTOR CONSOLE CONSTRUCTION CONSTRUCTION CONSTRUCTION CONSTRUCTION CONTACTOR	TECHNOLOGY		COST INFORMATION	CIS
CONCENTRIC CONCEPT VERIFICATION CV CONDENSER COND CONDITIONER CONDR CONDITIONER CONFIGURATION CONFIGURATION CONFORMANCE CONFORMANCE CONFORMITY EUROPE CONL CONNECTING CONN CONNECTION CONN CONNECTOR CONN CONN CONN CONN CONN CONN CONN CO		CONC		
CONCEPT VERIFICATION CONDENSER COND CONDENSER CONDR CONDR CONDRIG CONFIGURATION CONFIGURATION CONFORMANCE CONFORMANCE CONFORMITY EUROPE CONICAL CONNECTING CONN CONNECTION CONN CONN CONN CONN CONN CONN CONN C		CONC	COST OF POOR QUALITY	COPO
CONDENSER CONDITIONER CONFIGURATION CONFIGURATION CONFORMANCE CONTERBORE CONTERBOR COUNTERBOR COUN				
CONDITIONER CONFIGURATION CONFIGURATION CONFORMANCE CONFORMANCE CONFORMITY EUROPE CONCICAL CONNECTING CONNECTION CONNECTOR CONNECTOR CONNECTOR CONNECTOR CONSOLE CONSOLE CONSTRUCTION CONSTRUCTION CONTACTOR CONTAMINATION CONTAMI				02
CONFIGURATION CONFIG CONFORMANCE CONF CONFORMANCE CONFORMANCE CONFORMANCE CONFORMITY EUROPE CE COUNTERSHAFT CTSHFT CONICAL CONL (FORMERLY CTRSHFT)  CONNECTING CONN COUNTERSINK CSK CONNECTION CONN COUNTERWEIGHT CTWT CONNECTOR CONN COUPLER CPLR CONSOLE CSL COVER CVR CONSTRUCTION CNSTR CRADLE CRADL CONTACTOR CNTOR CONTACTOR CNTOR CONTACTOR CNTOR CONTACTOR CNTOR CONTACTOR CNTOR CONTACTOR CONTOR CRANKCASE CRKC CONTACTOR CONTACTOR CONTOR CRANKCASE CRKC CRANKCASE CRKC CONTACTOR CONTOR CROSS CRSC CRSC CRSC CRSC CRSC CRSC C				CRORE
CONFORMANCE CONF CONFORMITY EUROPE CE CONICAL CONNECTING CONNECTION CONNECTOR CONSOLE COSL COVER COVER CONSTRUCTION CNSTR CRADLE CONTACTOR CONTACTOR CONTOR CRANKCASE CRKC CONTAMINATION CTMNC CONTROL CONTAMINATION CONTROL CONTAMINATION CROSS CRS CRS CRS CRS CRS CRS CRS CRS CRS C				
CONFORMITY EUROPE CE CONICAL CONL CONNECTING CONNECTION CONNECTOR CONNECTOR CONNECTOR CONSOLE CONSTRUCTION CONTACTOR				
CONICAL CONL (FORMERLY CTRSHFT) CONNECTING CONN COUNTERSINK CSK CONNECTION CONN COUNTERWEIGHT CTWT CONNECTOR CONN COUPLER CPLR CONNECTOR TABLE CT COUPLING CPLG CONSOLE CSL COVER CVR CONSTRUCTION CNSTR CRADLE CRDL CONTACTOR CNTOR CRANKCASE CRKC CONTAMINATION CTMNC CRANKSHAFT CSHAFT CONTROL CONTAINER HANDLER CH CRESCENT CRSCNT CONTAMINATION CTMN CROSS CRS CONTINUE CONT CROSSOVER CRSVR				
CONNECTING CONNECTION CONN CONNECTOR CONNECTOR CONNECTOR CONNECTOR TABLE CONSOLE CONSTRUCTION CONTACTOR CONTAMINATION CONTAMINAT		~-		CISHFI
CONNECTION CONN CONN COUNTERWEIGHT CTWT CONNECTOR CONN COUPLER CPLR CONNECTOR TABLE CT COUPLING CPLG CONSOLE CSL COVER CVR CONSTRUCTION CNSTR CRADLE CRDL CONTACTOR CNTOR CRANKCASE CRKC CONTAMINATION CTMNC CRANKSHAFT CSHAFT CONTROL (FORMERLY CSHFT)  CONTAMINATION CTMN CRESCENT CRSCNT CONTAMINATION CTMN CROSS CRS CONTINUE CONT CONT CROSS CRS CONTINUE CONT CONT CROSS CRS CRSCNT CONTINUOUS CONT CROSSOVER CRSVR				
CONNECTOR CONN CONNECTOR TABLE CONSOLE CONSOLE CONSTRUCTION CONSTRUCTION CONTACTOR CONTACTOR CONTACTOR CONTACTOR CONTAMINATION CONTACTOR CONTAMINATION CONTAINER HANDLER CONTAMINATION CONTINUE CONTINUE CONT CONT CONT CONT CONT CONT CONT CONT				
CONNECTOR TABLE  CONSOLE  CONSOLE  CONSTRUCTION  CONSTRUCTION  CONTACTOR  CONTACTOR  CONTACTOR  CONTAMINATION  CONTAMINATION  CONTAINER HANDLER  CONTAMINATION  CONTAMINATION  CONTAMINATION  CONTAMINATION  CONTAMINATION  CONTAMINATION  CONTAMINATION  CONTAMINATION  CONTAMINATION  CONTINUE  CONT  CONT	CONNECTION	CONN	COUNTERWEIGHT	CTWT
CONSOLE CSL COVER CVR CONSTRUCTION CNSTR CONTACTOR CNTOR CRANKCASE CRKC CONTAMINATION CTMNC CRANKSHAFT CSHAFT CONTROL (FORMERLY CSHFT) CONTAMINATION CTMN CRESCENT CRSCNT CONTAMINATION CTMN CROSS CRS CONTINUE CONT CROSSHEAD CRSHD CONTINUOUS CONT CROSSOVER CRSVR	CONNECTOR	CONN	COUPLER	CPLR
CONSOLE CSL COVER CVR CONSTRUCTION CNSTR CONTACTOR CNTOR CRANKCASE CRKC CONTAMINATION CTMNC CRANKSHAFT CSHAFT CONTROL (FORMERLY CSHFT) CONTAMINATION CTMN CRESCENT CRSCNT CONTAMINATION CTMN CROSS CRS CONTINUE CONT CROSSHEAD CRSHD CONTINUOUS CONT CROSSOVER CRSVR	CONNECTOR TABLE	CT	COUPLING	CPLG
CONSTRUCTION CNSTR CONTACTOR CNTOR CONTAMINATION CTMNC CONTROL CONTAINER HANDLER CH CONTAMINATION CTMN CONTAMINATION CTMN CONTAMINATION CTMN CONTAMINATION CTMN CONTINUE CONT CONTINUE CONT CONTINUOUS CONT CONTAMINATION CONT CONTINUOUS CONT CRADLE CRADLE CRADLE CRADLE CRANKCASE CRANCCASE CRANCCASE CRANKCASE CRANKCASE CRANCCASE CRANKCASE CRANCCASE				
CONTACTOR CNTOR CRANKCASE CRKC CONTAMINATION CTMNC CRANKSHAFT CSHAFT CONTROL (FORMERLY CSHFT) CONTAINER HANDLER CH CRESCENT CRSCNT CONTAMINATION CTMN CROSS CRS CONTINUE CONT CROSSHEAD CRSHD CONTINUOUS CONT CROSSOVER CRSVR				_
CONTAMINATION CTMNC CRANKSHAFT CSHAFT CONTROL CONTAINER HANDLER CH CONTAMINATION CTMN CONTAMINATION CTMN CONTINUE CONT CONTINUE CONT CONTINUOUS CONT CRANKSHAFT CSHAFT (FORMERLY CSHFT) CRESCENT CRSCNT CRSSS CRS CRS CRS CRSSSHEAD CRSHD CRSHD CROSSOVER CRSVR				
CONTROL CONTAINER HANDLER CONTAMINATION CONTINUE CONTINUE CONTINUOUS  CONT CONTINUOUS  CH CONT CRESCENT CRESCENT CRESCENT CRESCENT CRESCENT CRESCENT CRESCENT CRESCENT CROSS CRS CRS CRS CRSHEAD CRSHD CRSHD CROSSOVER CRSVR				
CONTAINER HANDLER CH CONTAMINATION CTMN CONTINUE CONTINUE CONTINUOUS CONT CONTINUOUS CONT CRESCENT CROSS CRS CRS CRS CRSHEAD CRSHEAD CRSHEAD CRSHEAD CRSVR		CTIVIING		COLIAFI
CONTAMINATION CTMN CROSS CRS CONTINUE CONT CROSSHEAD CRSHD CONTINUOUS CONT CROSSOVER CRSVR		CII		CDCCNIT
CONTINUE CONT CROSSHEAD CRSHD CONTINUOUS CONT CROSSOVER CRSVR		-		
CONTINUOUS CONT CROSSOVER CRSVR		-		
THE INFORMATION HEREON IN THE DROBERTY OF CATERDRILLAR WAS AND OR ITS SUPCIDENCE AND INSTITUTE OF	CONTINUOUS	CONT	CROSSOVER	CRSVR
	THE INFORMATION HE	DEON IS THE DRODEDTY OF CAS	TERRILLAR INC. AND/OR ITS SURSIDIARIES. WITHOUT WEITTEN	

THE INFORMATION HEREON IS THE PROPERTY OF CATERPILLAR INC. AND/OR ITS SUBSIDIARIES. WITHOUT WRITTEN PERMISSION, ANY COPYING, TRANSMITTAL TO OTHERS, AND ANY USE EXCEPT THAT FOR WHICH IT IS LOANED, IS PROHIBITED.				
	DATE	CHG NO	NUMBER	
INTERPRETATION AND TOLERANCES - DRAWING	24 MAY 2018	57	1E0011	





CROWFOOT   CRUSTE CONTROL   CRUSTE CONTROL   CROON				
CUBIC BORON NITRIDE CUBIC FESTIMETER CUBIC FEET PER MINUTE CUBIC FEET PER SECOND CUBIC INCH CUBIC METER CUBIC INCH CUBIC METER CUBIC YARD CUBIC YARD CURRENT CORRENT C	CROWFOOT	CRWFT	DEEP RIPPING SHANK	D/R
CUBIC BORON NITRIDE CUBIC FESTIMETER CUBIC FEET PER MINUTE CUBIC FEET PER SECOND CUBIC INCH CUBIC METER CUBIC INCH CUBIC METER CUBIC YARD CUBIC YARD CURRENT CORRENT C	CRUISE CONTROL	CRCONT	DEFECT PER UNIT	DPU
CUBIC CENTIMETER CUBIC FEET CUBIC FEET CUBIC FEET PER NINUTE CUBIC FEET PER SECOND CUBIC INCH CUBIC METER CUBIC METER CUBIC METER SECOND CUBIC METER C				
CUBIC FEET PER MINUTE   CFM   CUBIC FEET PER MINUTE   CUBIC FEET PER MINUTE   CUBIC FEET PER MINUTE   CUBIC FEET PER MINUTE   CFM   DEFROSTER   DER DER SECOND   CUBIC INCH   CUBIC METER   m² (CU n)   DEGREE (ANRILE)   m¾ (CU n)   DEGREE (ANRILE)   DEGREE (				20
CUBIC FEET PER MINUTE   CFM   CUBIC FEET PER   CFS   SECOND   CUBIC INCH   CUBIC METER   CU VD   CUBIC INCH				DETP
CUBIC FEET PER   CFS   CFS   DEGREE (ANGLE)   C (DEG)				
SECOND CUBIC INCH CUBIC INCH CUBIC METER CUBIC VARD CURRENT CURRENT CURRENT CURRENT CURRENT CURRENT CURRENT CURRIN SYSTEM CURTAIN CUSHION (FORMERLY CUSHION (BULLDOZER USE) ONLY CUSHION (BULLDOZER CUSHION HITCH CUSHION (BULLDOZER CUSHION HITCH CUSHION (BULLDOZER CUSHION HITCH CUSHION (BULLDOZER CUSHION HITCH CUSTOM ASSEMBLY WORKSPACE CUSTOM SESEMBLY WORKSPACE CUSTOM FORMER CUTTING CUSTION (BULLDOZER CUSTOM ENGRG AUTHORIZATION CUSTOM SEEMBLY ACCEPTANCE VALIDATION CUSTOM SHOP MODIFICATION CUSTOM ENGRG ACCEPTANCE VALIDATION CUSTER CAV ACCEPTANCE VALIDATION CUSTER CAV ACCEPTANCE VALIDATION CUSTER CACE CUSTOM ENGR COTG DIAMETER CTR DIAMETER DECLARATION DIESEL ENAIDST LUID DEF DIESEL ENAIDST LUI				
CUBIC INCH		♦ CFS	DEGREE (ANGLE)	
CUBIC METER  CUBIC YARD  CURRENT  CURRENT  TRANSFORMERS  CURRENT SCROLL FUEL  SYSTEM  CUSHION (FORMERLY  CUSHION (FORMERLY  CUSHION (FORMERLY  CUSHION (FORMERLY  CUSHION HITCH  CUSHION HORSEAGE  CUSHION HORSEAGE  CUSTOR SAMELY  WORKSPACE  CUSHION HORSEAGE  CUSTOR SAMELY  WORKSPACE  CUSTOR SAMELY  WORKSPACE  CUSTOR DETECTION  CUSTOR BOTTOR  CUSTOR  CUSTOR BOTTOR  CUSTOR  CUSTOR  CUSTOR  CUSTOR  CUSTOR  COSTOR  CUSTOR  COSTOR  CUSTOR  C			DEGREE CELSIUS	
CUBIC YARD				
CURRENT CURRENT COT DEPARTMENT DEPARTMENT DEPARTMENT DEPARTMENT DEPARTMENT DEPARTMENT OF DOT TRANSFORMERS CURRENT SCROL FUEL CSFS TRANSFORMERS CURRENT COUNTING CURT DEPARTMENT OF DEPAR	CUBIC METER		DELUXE	DLX
CURENT TRANSFORMERS CURRENT SCROLL FUEL SYSTEM CURTAIN CUSHION (FORMERLY CUSH CUSHION (FORMERLY CUSH CUSHION (FORMERLY CUSH CUSHION (BULLDOZER CUSHON (BULLDOZER CUSHON (BULLDOZER CUSHON (BULLDOZER CUSHON (BULLDOZER CUSHON (BULLDOZER CUSTOM ASSEMBLY CUSHON NASSEMBLY CUSHON NASSEMBLY CUSHON NASSEMBLY CUSHON NASSEMBLY CUSHON NASSEMBLY CUSTOM ASSEMBLY CUSTOM ASSEMBLY CUSTOM ASSEMBLY CUSTOM ASSEMBLY CUSTOM SEVERTIAS DETO CUSTOM SHOP MODIFICATION CUSTOM SHOP MODIFICATION CUSTOM SHOP CUSTOM SHOP ACCEPTANCE VALIDATION CUTTER CUTTER CUTTER CUTTER CUTTER CUTTING CUTTER CUTTING CUTTER CUTTING CUTTER CUTTING CYCLES PER SECOND (HERTZ) CYCLES PER SECOND CUSHON CUSTOM SHOP CYLINDER CYL CUSHON CUSTOM SHOP DED CATALYST  DIAMETER CTRBAR CITBAR CITBAR CUTTING CYCLES PER SECOND CYL CUSHON CYL DIESEL ENGINE DEAC CYL DIESEL ENGINE DEAC CYL DIESEL ENGINE DEAC CYL DIESEL ENGINE DEAC CYL DIESEL ENGINE DEC CYL DIESEL ENGINE DIESEL ENGINE DEC CYL DIESEL ENGINE DIESEL ENGINE DEC CATALYST DEAC COLORIMETER DEC CYL DIESEL ENGINE DEC COLORIMETER DEC CYL DIESEL ENGINE	CUBIC YARD	◆ CU YD	DEMOLITION	DML
TRANSFORMERS CURRENT SCROLL FUEL SYSTEM CURTAIN CURT CUSHION (FORMERLY CUSH) CUSHION (BULLDOZER USE ONLY) CUSHION HITCH CUSTOM ASSEMBLY WORKSPACE CUSTOM SASEMBLY WORKSPACE CUSTOM SHOP COA  CUSTOM SHICATION DETION COBE CUSTOM SUSTAINS  DECAL COA  COA  COA  COA  COA  COA  COA  C	CURRENT	◆ CUR	DEMOUNTABLE	DMOUNT
TRANSFORMERS CURRENT SCROLL FUEL SYSTEM CURTAIN CURT CUSHION (FORMERLY CUSH) CUSHION (BULLDOZER USE ONLY) CUSHION HITCH CUSTOM ASSEMBLY WORKSPACE CUSTOM SASEMBLY WORKSPACE CUSTOM SHOP COA  CUSTOM SHICATION DETION COBE CUSTOM SUSTAINS  DECAL COA  COA  COA  COA  COA  COA  COA  C	CURRENT	CT	DEPARTMENT	◆ DEPT
CURRENT SCROLL FUEL SYSTEM CURTAIN CUSHION (FORMERLY CUSH) CUSHION (BULLDOZER CUSHON (BULLDOZER CUSHON (BULLDOZER CUSHON (BULLDOZER CUSHON (BULLDOZER CUSHON HITCH CUSHON HITCH CUSHON ASSEMBLY WORKSPACE CUSTOM ASSEMBLY CUSTOM ASSEMBLY CUSTOM SORG AUTHORIZATION CUSTOM SHOP CON SHOP CUSTOM SHOP CUSTOM SHOP CON SHOP C	TRANSFORMERS		DEPARTMENT OF	DOT
SYSTEM CURTAIN CURT CUSHION (FORMERLY CUSH) CUSHION (BULLDOZER CUSHION (BULLDOZER CUSHION (BULLDOZER CUSHION (BULLDOZER CUSHION HITCH CUSTOM ASSEMBLY CAW CUSTOM ASSEMBLY CAW CUSTOM ASSEMBLY CUSTOM ENGRG. CUSHON SHOP CUSTOM SHOP CORN CORN CUSTOM SHOP CORN CHICATION CUSTOM SHICLATION CHANCE CHANCE COLORINET CUSTOM SHOP CUSTOM SHOP CORN CHANCE CUSTOM SHOP CORN CHANCE COLORINET CUSTOM SHOP CUSTOM SHOP CORN CHANCE CUSTOM SHOP CORN CHANCE COLORINET CUSTOM SHOP CUSTOM SHOP CORN CHANCE CUSTOM SHOP CORN CORN COLORION CUSTOM SHOP CORN COLORION CUSTOM SHOP CORN CORN COLORION CUSTOM SHOP CORN CORN COLORION CUSTOM SHOP CORN COLORION CUSTOM SHOP CORN CORN COLORION CUSTOM SHOP CORN COLORION		◆ CSES	_	20.
CURTAIN CUSHION (FORMERLY CUSH) CUSHION (BULLDOZER CUSHON HITCH CUSHON MASSEMBLY CUSHON MASSEMBLY CUSHON MASSEMBLY CUSTOM ASSEMBLY CUSTOM ASSEMBLY CUSTOM ASSEMBLY CUSTOM SHOP AUTHORIZATION CUSTOM SHOP CHARLY DEVICE CUSTOM SHOP CHARLY DEVICE CUSTOM SHOP CAN CUSTOM SHOP CHARLY DEVICE COLORINE CUSTOM CHARLY DESCONTON COLORIAL SHOP CUSTOM SHOP COLORIAL SHOP CUSTOM SHOP CHARLY DEVICE CUSTOM SHOP CHARLY DEVICE CUSTOM SHOP CHARLY DEVICE CUSTOM SHOP CECAL COLORIAL CUSTOM SHOP CHARLY DEVICE CUSTOM SHOP CECAL COLORIAL CUSTOM SERVICE CUSTOM SERVICE CUSTOM SERVICE CUSTOM SERVICE COLORIAL COLORIAL COLORIAL COLORIAL COLORIAL COLORIAL COLORIAL COLORIAL COLOR		. 30.0		DEPR
CUSHION (FORMERLY CSH) CSH) CUSHION (BULLDOZER C DESIGN VERIFICATION DV CUSHION (BULLDOZER C DESIGN VERIFICATION DV CUSHION (BULLDOZER C DESIGN VERIFICATION DSCC USE ONLY) CUSHION HITCH C/H CUSTOM ASSEMBLY CAW WORKSPACE CUSTOM ENGRG. CEA AUTHORIZATION CUSTOM SHOP CUSTOM SHOP CUSTOMER ACCEPTANCE VALIDATION CUTTER CUTTER CUTTER CUTTING CYCLES PER SECOND Hz CYCLE PER REVOLUTION CYLINDER CYL		CLIPT		
CSH) CUSHION (BULLDOZER USE ONLY) CUSHION HITCH CUSTOM ASSEMBLY COWRKSPACE CUSTOM ASSEMBLY CUSTOM ASSEMBLY CUSTOM ASSEMBLY CUSTOM SENGRG CUSTOM SHOP AUTHORIZATION CUSTOM SHOP CUSTOM SUSTOM CUSTOM SHOP CUSTOM CUSTOM SHOP CUSTOM CUSTOM SHOP CHANTIC CUSTOM SHOP CHANTIC CUSTOM SEMENTIC DETION DETICOTOR CHANTION DETICUTOR CPR CYLINGER CAN DIAMETER DP DAAK DIAMETER DPF DESCRIPTION DECAMENTION DEC CUSTOM CEBER CUSTOM DECAMENT	= =			
CUSHÍON (BULLDOZER USE ONLY) CUSHION HITCH CUSTOM ASSEMBLY WORKSPACE CUSTOM ENGRG. CUSTOM ENGRG. CUSTOM SHOP MODIFICATION CUSTOM SHOP CUSTOMER COLORINE CUSTOMER COLORINE CUSTOMER COLORIMET CUSTOMER CUSTOMER CUSTOMER CUSTOMER CUSTOMER COLORIMET CUSTOMER CUSTOMER CUSTOMER CUSTOMER COLORIMET CUSTOMER CUSTOMER CUSTOMER COLORIMET CUSTOMER CUSTOMER CUSTOMER COLORIMET CUSTOMER CUSTOMER COLORIME CUSTOME COLORIME CUSTOMER COLORIME CUSTOME COLORIME CUSTOME COLORIME CUSTOME COLORIME CUSTOME COLORIME CUSTOME COLORIME CUSTOME COLORI		СОЗП		
USE ONLY) CUSHON HITCH CUSTOM ASSEMBLY WORKSPACE CUSTOM GENGRG. CUSTOM SHOP MODIFICATION CUSTOM SHOP MODIFICATION CUSTOM SHOP MODIFICATION CUSTOM SHOP CUSTOM SHOP MODIFICATION CUSTOM SHOP CUSTOMER CUSTOMER CUSTOMER CAV CUSTOMER COLUTIER CAV CUSTOMER COLUTIER CAV CUSTOMER COLUTIER CAV CUSTOMER COLUTIER COLUTIER COLUTION CUSTOMER COLUTION CUSTOMER COLUTION CUSTOMER COLUTION				
CUSHION HÍTCH CUSTOM ASSEMBLY WORKSPACE CUSTOM ENGRG. CUSTOM SHOP CUSTOM SHOP CUSTOM SHOP CUSTOMER COLORIANI COLORIANI COLORIANI CUSTOMER COLORIANI		C		
CUSTOM ASSEMBLY WORKSPACE CUSTOM ENGRG. AUTHORIZATION CUSTOM SHOP CUSTOM SHOP CUSTOMER MODIFICATION CUSTOMER COLORIMET CUSTOMER CUSTOMER CUSTOMER COLORIMET CUSTOMER CUSTOMER CUSTOMER COLORIMET CUSTOMER CUSTOMER CUSTOMER CUSTOMER CUSTOMER CUSTOMER COLORIMET CUSTOMER CUSTOMER COLORIMET CUSTOMER CUSTOMER COLORIME CUSTOMER CUSTOMER COLORIME CUSTOMER CUSTOMER COLORIME CUSTOMER CUSTOMER COLORIME CUSTOMER COLORIME CUSTOMER CUSTOMER COLORIME COLORIME CUSTOMER COLORIME COLORICA COLORIME COLORIME COLORIME COLORIME COLORIME COLORIME COLORI				
WORKSPACE CUSTOM ENGRG. CUSTOM SHOP CUSTOMSHOP CUSTOMER ACCEPTANCE VALIDATION CUTTER CUTTER CUTTING CUTTERBAR CUTTING CYCLES PER SECOND CYCLES PER REVOLUTION CYLINDER CYLINDER CYLINDER CYLINDER CYLINDER CYLINDER COLINDER COLORIMETER COLORIM				DETN
CUSTOM ENGRG AUTHORIZATION CUSTOM SHOP MODIFICATION CUSTOMER CUSTOMER CUSTOMER CUSTOMER CUSTOMER CUTTER CUTTER CUTTERBAR CUTTERBAR CUTTING CYCLES PER SECOND (HERTZ) CYCLE PER REVOLUTION CYLINDER CYLINDER CYLINDER CYLINDER CYLINDER COTT DAMPER DAMPER DAMPER DATA MESSAGING UNIT DECLERATION DECLERATOR DECLERATOR DECLERATOR DECLERATOR DECLERATOR DECLERATOR DECLERATOR DECLERATOR DECLERATOR DECLERATION DECLERATION DECLERATION DECLERATION DECLERATION DECLERATION DECLERATION DECLERATION DECLERATOR DECLERATOR DECLERATOR DECLERATOR DECLERATOR DECLERATOR DECLARATION DECLERATION DECLERATOR DECLERATOR DECLARATION DECLARATIO	CUSTOM ASSEMBLY	CAW		
AUTHORIZATION CUSTOM SHOP CUSTOMER CUSTOMER CACEPTANCE VALIDATION CUTTER CUTTER CUTTING CUTTERBAR CUTTING CUTTERBAR CUTTING CUTTERBAR CUTTING CYCLES PER SECOND CYCLE PER REVOLUTION CYCLINDER TO TANK CYLINDER TO TANK CACEPTANCE CYLINDER TO TANK CACEPTANCE CYCLES PER SECOND CYCLE PER REVOLUTION CPR ANTIFREEZE COOLANT DECAL DECAL EXPANSE TILL DEC CYLINDER TO TANK CT DIESEL ENGINE OIL DEC CYLINDER TO TANK CT DIESEL SERIONION DOC CATALYST DIESEL PARTICULATE DPF	WORKSPACE		DETECTOR	DET
CUSTOM SHOP MODIFICATION CUSTOMER ACCEPTANCE VALIDATION CUTTER CUTTER CUTTERBAR CUTTING CUTTING CYCLES PER SECOND (HERTZ) CYCLE PER REVOLUTION CYLINDER CYCLE PER SECOND D D D D D D D D D D D D D D D D D D	CUSTOM ENGRG.	CEA	DETONATION	DET
CUSTOM SHOP MODIFICATION CUSTOMER ACCEPTANCE VALIDATION CUTTER CUTTER CUTTERBAR CUTTING CUTTING CYCLES PER SECOND (HERTZ) CYCLE PER REVOLUTION CYLINDER CYCLE PER SECOND D D D D D D D D D D D D D D D D D D	AUTHORIZATION		DEUTSCHES INSTITUT	DIN
MODIFICATION CUSTOMER ACCEPTANCE VALIDATION CUTTER CUTTERBAR CUTTIRBBAR CUTTING CUTTING CYCLES PER SECOND (HERTZ) CYCLE PER REVOLUTION CYLINDER TO TANK D DAMPER DARK DATA MESSAGING UNIT DESEL ERVICE TOOLS DECLERATION DECLE		CSM		
CUSTOMER ACCEPTANCE VALIDATION CUTTER CUTTER CUTTERBAR CUTTING CUTTING CUTTING CUTTING CYCLES PER SECOND (HERTZ) CYCLE PER REVOLUTION CYLINDER COLLANT COLORIMETER DPF  DPF  DPF  DPF DPF DPF DPF DPF DPF	MODIFICATION			DVL
ACCEPTANCE VALIDATION CUTTER CUTTER CUTTERBAR CUTTING CYCLES PER SECOND (HERTZ) CYCLE PER REVOLUTION CYLINDER CYLINDER CYLINDER CYLINDER CYLINDER COT CYLINDER COT CYLINDER COP DIAMPER DAMPER DAMPER DATA MESSAGING UNIT DESALER SERVICE TOOLS DECALCOMANIA DECALCOMANIA DECELERATION DECELERATOR DECEMBER DECALCOMANIA DECLE DECALCOMANIA DECLE DECL		CAV		
VALIDATION CUTTER CTR CUTTERBAR CTRBAR CUTTING CTG CYCLES PER SECOND (HERTZ) CYCLE PER REVOLUTION CYLINDER CYLINDER CTG CYLINDER CTG CYLINDER CTG CYLINDER TO TANK D DAMPER DAMPER DAMPER DATA MESSAGING UNIT DECALCOMANIA DECALCOMANIA DECELERATION DECELER		<i>0711</i>		DIGN
CUTTER CUTTERBAR CUTTING CUTTING CUTTING CUTTING CYCLES PER SECOND (HERTZ) CYCLE PER REVOLUTION CYLINDER COLOANI CATALYST  DIESEL ENGINE DIESEL ENGINE DIESEL CANION CATALYST  DIESEL CXIDATION DIFF CATALYST  DIESEL PARTICULATE DIFF CATALYST  DIFF COLORIMETER DIFF COLORIMETER DIGITAL				DIGIT
CUTTERBAR CUTTING CYCLES PER SECOND (HERTZ) CYCLE PER REVOLUTION CYLINDER COLOLINDE COLORIMET COLORIMETER COLORIMETER DIGITAL D		CTD		* Ø(DIA)
CUTTING CYCLES PER SECOND (HERTZ) CYCLE PER REVOLUTION CYLINDER CYLINDER CYLINDER CYLINDER CYLINDER CP CYLINDER TO TANK CT  DAMPER DARK DATA MESSAGING UNIT DEALER SERVICE TOOLS DECALCOMANIA DECARBURIZATION DECARBURIZATION DECELERATION DECELERATOR DECC DECC DECC DECC DECC DECC DECC DEC				
CYCLES PER SECOND (HERTZ) CYCLE PER REVOLUTION CYLINDER CYLINDER CYLINDER PACK CYLINDER TO TANK D  DAMPER DARK DATA MESSAGING UNIT DECALES REVICE TOOLS DECALCOMANIA DECEMBER DECALCOMANIA DECEMBER DECC DECC DECC DECC DECC DECC DECC DE				
(HERTZ)         CYCLE PER REVOLUTION       CPR       ANTIFREEZE COOLANT         CYLINDER       CYL       DIESEL ENGINE OIL       DEO         CYLINDER PACK       CP       DIESEL ENGINE OIL       DEO         CYLINDER TO TANK       CT       DIESEL ENGINE OIL       DEO         CYLINDER TO TANK       CT       DIESEL SCAIDATION       DOC         DAMPER       DMPR       DIESEL PARTICULATE       DPF         DARK       DK       FILTER       DFF         DATA MESSAGING       DMU       DIFFERENTIAL       DIFF         UNIT       DIFFERENTIAL       DSC       DSC         DEALER SERVICE TOOLS       DST       SCANNING       DSC         DECALCOMANIA       DECAL.       COLORIMETER       DGTL         DECARBURIZATION       DECAR       DIGITAL       DGTL         DECARBURIZATION       DCLR       DIGITAL CONTROL UNIT       DCU         DECELERATOR       DCLR       DIGITAL IGNITION       DISN         DECEMBER       DEC       SYSTEM NEGATIVE         DECIBEL (SEE BO.3)       dB       DIGITAL MULTIMETER       DMM         DECIMETER       dm       DIGITAL REAR SLEEPER       DRSA         INCORPORATION				
CÝCLE PÉR REVOLUTION CYLINDER       CPR CYL       ANTIFREEZE COOLANT DIESEL ENGINE OIL       DEO         CYLINDER PACK CYLINDER TO TANK       CP       DIESEL EXHAUST FLUID       DEF         DAMPER DARK DATA MESSAGING UNIT       DMPR DK       DIESEL DATICULATE FILTER       DPF         DATA MESSAGING UNIT       DMU       DIFFERENTIAL DIFFERENTIAL DIFFERENTIAL DIFFERENTIAL       DIFF         DECALE SERVICE TOOLS DECALCOMANIA DECARBURIZATION DECERBER DECELERATION DECELERATION DECELERATION DECELERATION DECENBER DEC       DIGITAL DIGITAL CONTROL UNIT DIGITAL IGNITION DISN       DGTL DIGITAL IGNITION SYSTEM NEGATIVE         DECEMBER DEC DECIBEL (SEE BO.3) INCORPORATION DED DED DED DED DIMENSION       DIMM DIM. DIM. DIMENSION       DIM. DIM. DIM. DIMECT CURRENT		HZ	_	
CYLINDER CYLINDER PACK CYLINDER PACK CYLINDER TO TANK CT DIESEL EXHAUST FLUID DEF CATALYST DAMPER DARK DATA MESSAGING DIFFERENTIAL DIFFERENTIAL DIFFERENTIAL DIFFERENTIAL DIFFERENTIAL DECALCOMANIA DECARBURIZATION DECELERATION DECELERATOR DECELERATOR DECELERATION DECEMBER DEC				DEAC
CYLINDER PACK CYLINDER TO TANK D  D  DAMPER DARK DATA MESSAGING UNIT DEALER SERVICE TOOLS DECARBURIZATION DECELERATION DECELERATOR DECELERATOR DECELERATOR DECC DECC DESEL EXHAUST FLUID DESEL OXIDATION DECC CATALYST DESEL PARTICULATE DF				
CYLINDER TO TANK  D  D  D  D  D  D  D  D  D  D  D  D  D	- · - · · · - · · · · · · · · · · · · ·		DIESEL ENGINE OIL	
D DAMPER DARK DK FILTER DIESEL PARTICULATE DFF DARK DATA MESSAGING DMU DIFFERENTIAL DIFF UNIT DEALER SERVICE TOOLS DST SCANNING DECALCOMANIA DECARB DIGITAL DIGITAL DIGITAL DECLERATION DECLERATION DCLR DIGITAL GNITION DISN DECELERATOR DCLR DIGITAL IGNITION DISN DECEMBER DEC SYSTEM NEGATIVE DECIBEL (SEE BO.3) DIGITAL MULTIMETER DMM DECIMETER DO DIGITAL REAR SLEEPER DRSA INCORPORATION DED DIMENSION DIM. DED DIMENSION DIM. DEC DIMENSION DIM. DECIMETER DR DC DIGITAL REAR SLEEPER DC DIGITAL REAR SLEEPER DC DIMENSION DIM. DIM. DIM. DIM. DIM. DIM. DIM. DIM.	CYLINDER PACK		DIESEL EXHAUST FLUID	DEF
D DAMPER DARK DK FILTER DIESEL PARTICULATE DFF DARK DATA MESSAGING DMU DIFFERENTIAL DIFF UNIT DEALER SERVICE TOOLS DST SCANNING DECALCOMANIA DECARB DIGITAL DIGITAL DIGITAL DECLERATION DECLERATION DCLR DIGITAL GNITION DISN DECELERATOR DCLR DIGITAL IGNITION DISN DECEMBER DEC SYSTEM NEGATIVE DECIBEL (SEE BO.3) DIGITAL MULTIMETER DMM DECIMETER DO DIGITAL REAR SLEEPER DRSA INCORPORATION DED DIMENSION DIM. DED DIMENSION DIM. DEC DIMENSION DIM. DECIMETER DR DC DIGITAL REAR SLEEPER DC DIGITAL REAR SLEEPER DC DIMENSION DIM. DIM. DIM. DIM. DIM. DIM. DIM. DIM.	CYLINDER TO TANK	CT	DIESEL OXIDATION	DOC
DAMPER DARK DATA MESSAGING DMU DEALER SERVICE TOOLS DECALCOMANIA DECARBURIZATION DECELERATION DECELERATOR DECELERATOR DECELERATOR DECIBER DEC DECIBEL (SEE BO.3) DEC DECLARATION OF DIFF DIFF DIFF FILTER DIFF DIFF DIFF DIFF DIFF SCANNING COLORIMETER DIGITAL DIGIT				
DARK DATA MESSAGING DMU DEALER SERVICE TOOLS DEALER SERVICE TOOLS DECALCOMANIA DECARBURIZATION DECELERATION DECELERATOR DECEMBER DEC DECIBEL (SEE BO.3) DEC DECIMETER DECLARATION OF INCORPORATION DED DED DED DIMENSION DED DIMENSION DIFFERENTIAL DIFF DIFF DIFF DIFF DIFF DIFF DIFF DIF		DMPR		DPF
DATA MESSAGING UNIT  DEALER SERVICE TOOLS DECALCOMANIA DECARBURIZATION DECELERATION DECELERATOR DECEMBER DECIBEL (SEE BO.3) DECIMETER DECLARATION OF INCORPORATION DED DEC DEC DEC DEC DEC DEC DEC DEC DEC				
UNIT DEALER SERVICE TOOLS DECALCOMANIA DECARBURIZATION DECELERATION DECELERATOR DECEMBER DEC DECIBEL (SEE BO.3) DECIMETER DECLARATION OF DICCLARATION DECLARATION DIGITAL REAR SLEEPER DRSA AUDIO DIMENSION DIM. DIM. DIM. DIM. DIRECT CURRENT DC				DIFF
DEALER SERVICE TOOLS DECALCOMANIA DECALCOMANIA DECARBURIZATION DECELERATION DECELERATOR DECEMBER DEC DECIBEL (SEE BO.3) DEC DECLARATION OF INCORPORATION DED DEC DEC DEC DEC DEC DEC DEC DEC DEC		<b></b>		
DECALCOMANIA DECARBURIZATION DECARB DECELERATION DECELERATOR DECELERATOR DECEMBER DEC DECIBEL (SEE BO.3) DECIMETER DECLARATION OF DECLARATION OF INCORPORATION DEDE DEC DEC DEC DEC DEC DEC DEC DEC DE		DST		200
DECARBURIZATION DECARB DECELERATION DECELERATOR DECELERATOR DECEMBER DEC DECIBEL (SEE BO.3) DECIMETER DECLARATION OF DISCUSSION DECLARATION OF DISCUSSION DECLARATION DIGITAL CONTROL UNIT DIGITAL IGNITION DIGITAL MULTIMETER DIGITAL OUTPUT DO DIGITAL REAR SLEEPER DRSA AUDIO DIMENSION DIMENSI		_		
DECELERATION DECELERATOR DECEMBER DEC DECIBEL (SEE BO.3) DECIMETER DECLARATION OF INCORPORATION DEDENDUM DEEP DECLARATION DECLARATION DEDEN DECLARATION DEDEN DECLARATION DEDEN DECLARATION DECLARATION DEDEN DECLARATION DEDEN DECLARATION DEDEN DECLARATION DEDEN DECLARATION DEDEN DECLARATION DEDEN DECLARATION DIGITAL CONTROL UNIT DCU DIGITAL IGNITION DIGITAL MULTIMETER DMM DIGITAL OUTPUT DO DIGITAL REAR SLEEPER DRSA AUDIO DIMENSION DIM. DIM. DIRECT CURRENT DC		_		DOTI
DECELERATOR DCLR DECEMBER DEC  DECIBEL (SEE BO.3)				-
DECEMBERDECSYSTEM NEGATIVEDECIBEL (SEE BO.3)dBDIGITAL MULTIMETERDMMDECIMETERdmDIGITAL OUTPUTDODECLARATION OF INCORPORATIONDOIDIGITAL REAR SLEEPERDRSADEDENDUM DEPDEDDIMENSIONDIM.DEPDIRECT CURRENTDC		-		
DECIBEL (SEE BO.3)  DECIMETER  DIGITAL MULTIMETER  DMM  DIGITAL OUTPUT  DO  DIGITAL REAR SLEEPER  DRSA  AUDIO  DEDENDUM  DED  DP  DIMENSION  DI		_		DISN
DECIMETERdmDIGITAL OUTPUTDODECLARATION OFDOIDIGITAL REAR SLEEPERDRSAINCORPORATIONAUDIODEDENDUMDEDDIMENSIONDIM.DEEPDPDIRECT CURRENTDC		_		
DECLARATION OF DOI DIGITAL REAR SLEEPER DRSA AUDIO DEDENDUM DED DIMENSION DIM. DEEP DP DIMENSION DIM. DIRECT CURRENT DC	,			
INCORPORATION DEDENDUM DEEP DP  AUDIO DIMENSION DIMENSION DIRECT CURRENT DC	I -	dm		
DEDENDUM     DED       DEP     DIMENSION     DIM.       DIRECT CURRENT     DC	DECLARATION OF	DOI	DIGITAL REAR SLEEPER	DRSA
DEEP DP DIRECT CURRENT DC	INCORPORATION		AUDIO	
DEEP DP DIRECT CURRENT DC	DEDENDUM	DED	DIMENSION	DIM.
	_	DP		

THE INFORMATION HEREON IS THE PROPERTY OF CATERPILLAR INC. AND/OR ITS SUBSIDIARIES. WITHOUT WRITTEN PERMISSION, ANY COPYING, TRANSMITTAL TO OTHERS, AND ANY USE EXCEPT THAT FOR WHICH IT IS LOANED, IS PROHIBITED.				
	DATE	CHG NO	NUMBER	
INTERPRETATION AND TOLERANCES - DRAWING	24 MAY 2018	57	1E0011	





DIRECT CURRENT	DCLKG	DUAL FUEL	DF
LINKAGE		DUAL LAYER SHIELD	DLS
DIRECT DRIVE	DDR		♦ DTR
(FORMERLY DD)		DUCTILE	DCTL
DIRECT ELECTRIC	DIR ELEC	DUMP	DMP
DIRECT INJECTION	DI	DUPLEX	DX
DIRECT OPERATED	DIR OPR	DUROMETER	DURO
DIRECTION	DIR	DUTY	DTY
DISCHARGE	DISCH	DYNAMIC	DYN
DISCHARGE PRESSURE	DP	DYNAMIC GAS BLENDING	DGB
DISCONNECT	DISC		
DISPLACEMENT	DISP	E	
(FORMERLY DISPL)	5.61	EACH	EA
DISPOSAL	DSPL	EARLY INLET CLOSING	EIC
	_		ECC
DISPOSITION	♦ DISPN	ECCENTRIC	
(FORMERLY DISP)		ECOLOGY	ECOL
DISTANCE	DIST	ECONOMIC COMMISSION	E.C.E.
DISTANCE BETWEEN	DBSE	OF EUROPE	
SHAFT ENDS		EDGE	E
DISTANCE	DMI	EFFECTIVE EFFICIENCY	♦ EFF
MEASUREMENT		EFFICIENCY	EFF
INSTRUMENT		EJECTOR (FORMERLY	EJCTR
DISTILLATE	DSTLT		LUCTIN
	♦ DISTR	FLDOW	ELB
	_	EJECT.) ELBOW ELECTRIC ELECTRICAL ELECTRIC DRIVE	
DISTRIBUTION CENTER	DCA	ELECTRIC	ELEC
ARRANGEMENT		ELECTRICAL	ELEC
DISTRIBUTOR	DISTR	ELECTRIC DRIVE	EDR
DITCH CLEANING	DC	I (FORMERLY ED)	
DIVERTER	DVTR	ELECTRIC DRIVE MOTOR	EDRM
DIVIDER	DIV	ELECTRIC STARTING	ELECSTG
	♦ DIV	ELECTRODE	ELCTD
DOUBLE	DBL	ELECTROHYDRAULIC	ELHYD
DOUBLE FLANGE	DFLG	(FORMERLY EH)	LLITTE
	DG	ELECTROLESS NICKEL	ENIG
DOUBLE GROUSER			EINIG
DOWN	DN	IMMERSION GOLD	
DOWNSHIFT	DNSFT	ELECTROMAGNETIC	EMB
DOWN SOLENOID	DOWN SOL	BRAKE	
DRAGLINE	DL	ELECTROMAGNETIC	EMI
DRAIN	DR	INTERFERENCE	
DRAWBAR	DB	ELECTROMAGNETIC	EMS
DRAWBAR, CIRCLE, &	DCM	STIRRING	
MOLDBOARD		ELECTROMECHANICAL	ELMCH
DRAWN OVER MANDREL	DOM	ELECTRO-MOTIVE	EMD
DRAWING	DWG	DIESEL	22
DRAWN	DRN	ELECTRONIC DATA	EDI
			בטו
DRILL	DR	INTERCHANGE	E1 E11
DRIVE	DR	ELECTRONICS	ELEK
DRIVE END	DE	ELECTRONIC	EMS
DRIVER	DRVR	MONITORING	
DRIVERS	DRVRS	SYSTEM	
DROP NOSE	DROP N	ELEMENT	ELEM
DRY BULB	DB	ELEVATE (FORMERLY	ELEV
DRYER	DYR	ELV)	=== <del>•</del>
DRY VACUUM/PRESSURE	DVP	ELEVATING SCRAPER	ELV SRPR
DUAL CONTROL	◆ DUAL CONT	(FORMERLY SCPR)	LLV OINT IN
	DF	,	ELEV
DUAL FACE (HEAVY	DF	ELEVATOR	
DUTY)		EMERGENCY	EMER
		INC AND/OR ITS SUBSIDIARIES WITHOUT WRITTEN	

THE INFORMATION HEREON IS THE PROPERTY OF CATERPILLAR INC. AND/OR ITS SUBSIDIARIES. WITHOUT WRITTEN PERMISSION, ANY COPYING, TRANSMITTAL TO OTHERS, AND ANY USE EXCEPT THAT FOR WHICH IT IS LOANED, IS PROHIBITED.				
	DATE	CHG NO	NUMBER	
INTERPRETATION AND TOLERANCES - DRAWING	24 MAY 2018	57	1E0011	

Caterpillar: Confidential Green





EMISSION(S) (FORMERLY	EMSN	EUROPEAN CEN	EN	
EMIS)		STANDARDS		
ENCLOSED (FORMERLY	ENCL	EUROPEAN COMMISSION	EC	
ENCLD)		EUROPEAN ECONOMIC	◆ EEC	
ENCLOSÉD ROLLOVER	EROPS	COUNCIL		
PROTECTIVE		EUROPEAN UNION	EU	
STRUCTURE		EVAPORATOR	EVAF	)
ENCLOSURE	ENCL	EVIDENCE	EVDO	
ENERGIZE TO RUN	ETR	EXAMINATION	EXAN	
ENERGIZE TO STOP	ETS	EXAMPLE	♦ EX	•
ENGINE	ENG	EXCAVATE	EXC	
		EXCHANGED		
ENGINE CRANKCASE	ECF	EXCHANGER	EXCH	1
FLUID		EXHAUST (FORMERLY	EXH	
ENGINE & EXHAUST	EEM	EX)		
MODULE		EXHAUST GAS	EGR	
ENGINE & EXHAUST	EEMA	RECIRCULATION (NFND		
MODULE		USE HIGH PRESSURE		
ARRANGEMENT		LOOP INSTEAD)		
ENGINE END FRAME	EEF	EXHAUST VALVE	EVA	
<b>ENGINE IDLE REDUCTION</b>	EIRS	ACTUATOR		
SYSTEM		EXPAND	EXP	
ENGINE INTERFACE BOX	EIB	EXPANSION	◆ EXP	
ENGINE OIL PRESSURE	ENG OIL PR	EXPENDABLE PATTERN	EPC	
ENGINE PARALLELING &	EPIC	CASTING	2. 0	
INTEGRATION	LITO	EXPERIMENTAL	EXP	
CONTROL		EXPLODE	EXPL	
ENGINE SHIPPING	ESO	(FORMERLY XPL)	LAFL	
	230		EVDI	N.I.
ORDER	. FNOD	EXPLOSION (FORMERLY	EXPL	IN
ENGINEER	♦ ENGR	XPL)	<b>ED</b>	
ENGINEERING	ENGRG	EXPLOSION PROOF	EP	
ENGINEERING CHANGE	E/C	EXTEND	EXT	
ENGINEERING CHANGE	◆ ECDR	EXTENDABLE	EXTB	
DATA REQUEST		EXTENDED IDENTIFIER	EID	
ENGINEERING DATA	EDS	EXTENDED LIFE	ELC	
SYSTEM		COOLANT		
ENGINEERING DATA	♦ EDT	EXTENDED LIFE POWER	XLP	
TRANSMITTAL		TRAIN		
ENGINEERING	EMA	EXTENDER (FORMERLY	EXTN	ID
MANUFACTURING		EXTDR)		
AUTHORIZATION		EXTENSION	EXT	
ENGLISH	ENG	EXTERNAL	EXT	
ENVIRONMENTAL	EFUP	EXTINGUISHER	EXT	<u>.</u>
FRIENDLY USE PERIOD	LIOI	EXTRA	EX	•
ENVIRONMENTAL	EPA		XE	
_	EFA	EXTRA EFFICIENCY		
PROTECTION AGENCY	EALL	EXTRA LARGE	EXL	
ESTIMATED ANNUAL	EAU	EXTRA LONG	XL	
USAGE		EXTRA QUIET	XQ	
EQUALIZE	EQ	EXTRA WIDE	XW	
EQUALLY SPACED	EQ SP	EXTREME DUTY	XD	
EQUIPMENT	◆ EQUIP.	EXTREME SERVICE	ES	
EQUIPMENT CARE	ECA	EXTREME SERVICE	♦ ESU	
ADVISOR		UNDERCARRIAGE		
EQUIVALENT	EQUIV	EXTRUDE	EXTD	)
ESTABLISH	ESTAB	EXTRUDED	EXTR	.D
ESTIMATE	♦ EST			
EURASIAN ECONOMIC	EEU	F F		
UNION		FABRICATED TOOL	FT	
<u> </u>				
THE INFORMATION HE	DEON IS THE DRODEDTY OF CATE	RPILLAR INC. AND/OR ITS SUBSIDIARIES. WITHOUT WRITTE	:NI	

THE INFORMATION HEREON IS THE PROPERTY OF CATERPILLAR INC. AND/OR ITS SUBSIDIARIES. WITHOUT WRITTEN PERMISSION, ANY COPYING, TRANSMITTAL TO OTHERS, AND ANY USE EXCEPT THAT FOR WHICH IT IS LOANED, IS PROHIBITED.				
	DATE	CHG NO	NUMBER	
INTERPRETATION AND TOLERANCES - DRAWING	24 MAY 2018	57	1E0011	





FACILITY	◆ FACIL	FIXED PITCH L DRIVE	FPL
FACTORY	FCTY	FIXED PITCH Z DRIVE	FPZ
FAHRENHEIT		FLAME	FLM
(SEE DEGREE		FLAME IONIZATION	FID
FAHRENHEIT)		DETECTOR	116
	FMEA		FLG
FAILURE MODE EFFECTS	FIVIEA	FLANGE	
ANALYSIS		FLARE	FLR
FAILURE MODE	FMI	(FORMERLY FLRG)	
IDENTIFIER		FLAT BACK	FLB
FAIRLEAD	FRLD	FLAT HEAD	FLH
FALLING OBJECTS	FOGS	(FORMERLY FH)	
GUARD		FLEXIBLE '	FLEX.
SYSTEM		FLOOR	FL
FAMILY	FMLY	FLOW COEFFICIENT	Cv
FAMILY EMISSION LIMIT	FEL	FLOW COLT TICIENT	F CONT
FAMILY TABLE	FT	FLUID	FL
FALLING OBJECTS	FOPS	FLUID COOLED	FCLD
PROTECTIVE		FLUID END	FE
STRUCTURE		FLUSHING	FLG
FASTENER	FSTNR	FLUX CORED ARC	FCAW
FAST FILL	FF	WELDING	
FAST TRACK	FT	FLYWHEEL	FLY.
FAST VESSEL	FV	FOLLOW	♦ FOL
FAULT	FLT	FORK	FK
FEATURE	FTRE	FOOT	FT
_			
FEBRUARY	FEB	FOOT POUND	♦ FT LB
FEDERAL	FED	FOR USE WITH	♦ F/U/W
FEEDBACK	FDBK	FORGER	FRG
FEEDER	FDR	FORGING	FRG
FEET	♦ FT	FORMED IN PLACE	FIP
FEET PER MINUTE	♦ FPM	FORWARD	FWD
FEET PER SECOND	♦ FPS	FORWARD NEUTRAL	FNR
FELLER BUNCHER (SEE		REVERSE	
WHEEL OR TRACK		FOUNDATION	FDN
		FOUNDRY	FDRY
FELLER BUNCHER)	FND	FOUR WHEEL DRIVE	4WD
FENDER			
FIBERGLASS	FRP	FOURIER TRANSFORM	FTIR
REINFORCED PLASTICS		INFRARED	
FIELD EFFECT	FET	SPECTROSCOPY	
TRANSISTOR		FRACTURED	FRACT
FIELD OF VIEW	FOV	FRAME	FR
FIELD PROGRAMMABLE	FPGA	FREE FORK HEIGHT	FFH
GATE ARRAY		FREE WHEELING	FWS
FIGURE	♦ FIG.	STATOR	
FILLER	FLR	FREIGHTLINER	FRTLNR
FILTER	FLTR	FREQUENCY	FREQ
FINAL DRIVE	FDR	FREQUENCY	FM
			F1VI
FINAL DRIVE AND AXLE	FDAO	MODULATION	FDICT
OIL		FRICTION	FRICT
FINISH	♦ FIN.	FRONT	FR
FINISH ALL OVER	♦ FAO	FRONT MOUNTED TURBO	FMT
FINISH TO ORDER	FTO	FRONT SHOVEL	FS
FINISHING	FNSHG	FRONT WHEEL ASSIST	FWA
FIRE RESISTANT FLUID	FRES FL	FRONT WHEEL SPEED	FWSS
FIRE SUPPRESSION	FSUP	SENSOR	<del>-</del>
FIRST PRODUCTION	♦ 1st PROD	FRONT WINDOW	FWDO
FITTING	FTG	FUEL	F
THINO	110		<u> </u>

THE INFORMATION HEREON IS THE PROPERTY OF CATERPILLAR INC. AND/OR ITS SUBSIDIARIES. WITHOUT WRITTEN PERMISSION, ANY COPYING, TRANSMITTAL TO OTHERS, AND ANY USE EXCEPT THAT FOR WHICH IT IS LOANED, IS PROHIBITED.				
	DATE	CHG NO	NUMBER	
INTERPRETATION AND TOLERANCES - DRAWING	24 MAY 2018	57	1E0011	





			_			
FUEL INJECTION PUMP		FIP		GLOBAL BRAND		GBIC
FUEL LINES		FLNS		IDENTITY COUNCIL		
FUEL LINES FUEL PRESSURE		FUEL PR		GLOBAL POSITIONING		GPS
I FUEL FUIVIE		ГГ		SYSTEM		
FUEL RATIO CONTROL		FRC		GLOBAL PRODUCT		GPGR
FUEL SHUTOFF		FSO		GEOMETRY		
FUEL TANK		FTK		REPLICATION		
ELUL EEATUBE				GLOBAL SATELITE		GSM
FULL FEATURE FULL FREE LIFT FULL FREE TRIPLE LIFT FULL INDICATOR		FFL		MONITOR		GOIVI
FULL FREE LIFT		FFTL		GLOBAL SYSTEM FOR		GSM
FULL INDICATOR						GSIVI
		FIM		MOBILE		
MOVEMENT		511.5		COMMUNICATIONS		001/7
FULL LOAD		FLLD		GOVERNMENT	•	♦ GOVT
FULLY TAPERED AND		FTP		GOVERNOR		GOV
POLISHED				GOVERNOR TORQUE		GOVTOR
FUMES		FMS		GRADE (FORMERLY GRD)	)	GR
FUNCTION		FCTN		GRADE CONTROL		GC
	G			GRADE CONTROL GRADE CONTROL READY	,	GCR
GAUGE		GA		ODAIN		GR
GAUGE GALLON GALLONS PER HOUR	•	GAL.		GRAIN GRAM GRAPPLE GRAVITY GRAVITY BOOT MEAN		g
GALLONS PER HOUR		GPH		GRAPPI F		GRPL
GALLONS PER MINUTE		GPM		GRAVITY		G
GALLONS PER SECOND		GPS		GRAVITY ROOT MEAN		G-rms
GALVANIZE	`	GALV		SQUARE		0-11113
CAS ADMISSION VALVE		GALV		GRAY		GY
GAS ADMISSION VALVE GAS ADMISSION VALVE GAS ADMISSION VALVE						
GAS METAL ARC		GMAW		GREASE		GRS
WELDING				GREEN (FORMERLY GN) GREEN (WIRE COLOR		GRN
WELDING GAS SAFETY GAS SHUTOFF VALVE		GS		GREEN (WIRE COLOR		GN
I GAS SHUTOFF VALVE		GSOV		ONLY)		
GAS START (FORMERLY		GST		GRILL		GRL
GS)				GRIND (FORMERLY G)	•	♦ GRD
GAS TUNGSTEN ARC		GTAW		GROOVE		GRV
WELDING				GROUND		GND
GASIFIER		GASFR		GROUND DRIVEN		GND DRVN
GASOLINE		GAS.		GROUND ENGAGING		G.E.T.
GATHER		GTHR		TOOL		<b>0.</b>
GEAR		GR		GROUND FAULT CIRCUIT		GFCI
GEARBOX		GRBX		INTERRUPTER		01 01
GEAR OIL (FORMERLY		GRO		GROUND SPEED		GS
GO)		GNO		(FORMERLY GNDSPD)		GS
GEARSHIFT		GRSH				GP
				GROUP		
GENERAL		GENL		GUARD		GD
GENERAL DUTY		GD		GUARDING		GDG
GENERAL OFFICE	•	G.O.		GUIDE		GDE
		(OBSOLETE)		l	Н	
GENERAL PACKET RADIO		GPRS		HAMMER		HMR
SERVICE				HANDHOLD		HH
GENERAL PURPOSE		GP		HANDLE		HDL
GENERATION		GEN		HANDLING		HDLG
GENERATOR		GEN		HANDRAIL		HNDRL
GEOMETRIC		GD&T		HARDEN		HDN
DIMENSIONING				HARDNESS		HDNS
& TOLERANCING				HARDWARE		HDWR
GERMANISCHER LLOYD		GL		HARDWARE		HRS
GEROTOR		GRTR		REQUIREMENTS		11110
GIGAHERTZ		GHz		SPECIFICATION		
		GF2				HARN
GLASS FILLED		Gr		HARNESS		ПАКІ

THE INFORMATION HEREON IS THE PROPERTY OF CATERPILLAR INC. AND/OR ITS SUBSIDIARIES. WITHOUT WRITTEN PERMISSION, ANY COPYING, TRANSMITTAL TO OTHERS, AND ANY USE EXCEPT THAT FOR WHICH IT IS LOANED, IS PROHIBITED.				
	DATE	CHG NO	NUMBER	
INTERPRETATION AND TOLERANCES - DRAWING	24 MAY 2018	57	1E0011	





	HARVESTER	HARVEST.	HINGE	HNG
	HARVESTER HEAD	нн	HOLD SWITCH	HOLD SW
	HATCH	H	HOLLOW BORE	HB
	HEAD	HD		HMLG
			HOMOLOGATION	-
	HEAD END	HE	HOPPER	HPR
	HEADER	HDR	HORIZONTAL	HORIZ
	HEADLAMP	HDLMP	HORSEPOWER ◆	HP
	HEADLINER	HLNR	HORSEPOWER HOUR ◆	HP HR
	HEADLINING	HLNG	HOSE BURST CHECK	HBCV
	HEAT	HT	VALVE	TIBOV
	HEATED	HTD	HOT FINISHED	HF
	HEATER	HTR	HOT FINISHED SURFACE	HFS
	HEATER PARALLEL	HPN	HOT FINISHED SURFACE-	HFS-SF
	NEOPRENE		SCALE FREE	
	HEAT RESISTANT GLASS	HRG	HOT ISOSTATIC PRESS	HIP
	HEAT SINK	HTSK	HOT ROLLED	HR
	HEAT TREAT	HT TR	HOUR *	h (HR)
				II (IIK)
	HEATING, VENTILATION,	HVAC	(FORMERLY HR (hr))	
	AND AIR CONDITIONING		HOUSING	HSG
	HEAVY	HVY	HUMAN READABLE	HRI
	HEAVY DUTY	HD	INTERPRETATION	
	HEAVY EXCAVATOR	HEDC	HUMIDITY	HMD
	DESIGN CONTROL	1.250	HYDRAULIC (FORMERLY	HYD
	HECTARE	ha		וווט
			HYDR)	1100
	HECTOGRAM	hg	HYDRAULIC CYLINDER	HCS
	HEIGHT	HGT	REPAIR STAND	
	HELICAL	HLCL	HYDRAULIC	HEES
	HENRY	Н	ENVIRONMENTAL	
	HERTZ	Hz	ESTER SYNTHETIC	
	HEXADECIMAL	0x		HEX.
	HEXAGON	HEX.	HYDRAULIC METERING	HMU
	HIGHER REGULATED	HRC	UNIT	
	COUNTRY		HYDRAULIC MINING	HMS
	HIGH CURRENT POWER	HCPD	SHOVELS	
	DISTRIBUTION		HYDRAULIC OIL	HYDO
	HIGH FREQUENCY	HFRR	HYDRAULIC OIL	HYD TEMP
	RECIPROCAL TEST RIG	THICK	TEMPERATURE	THE TEIM
	HIGH HORSEPOWER	ННР	_	HTC
			HYDRAULIC	піс
	HIGH INTENSITY	HID	TRANSMISSION	
	DISCHARGE		CONTROL	
	HIGH LIFT	HLFT	HYDRAULIC	HEUI
	HIGH OVERLAP	HOL	ELECTRONIC	
	HIGH PERFORMANCE	HPA	UNIT INJECTOR	
	AFTERCOOLER		HYDRO-MECHANICAL	HMG
	HIGH PRESSURE	HP	GOVERNOR	. IIVIO
				HMCO
	HIGH PRESSURE	HPC	HYDRO-MECHANICAL	HMSO
	CONTROLLER		SHUTOFF	
	HIGH PRESSURE	HPCR	HYDROSTATIC	HYDRST
	COMMON RAIL		HYDROSTATIC DRIVE	HDS
	HIGH PRESSURE LOOP	HPL	SYSTEM	
	HIGH SPEED	HS	HYDROSTATIC POWER	HSPU
	HIGH SPEED DATA LINK	HSDL	UNIT	. 10. 0
		_		HDVV
	HIGH SPEED PACKET	HSPA	HYDROXIDE .	HDYX
	ACCESS			
	HIGH SPEED STEELS	HSS	IDEAL DIAMETER	DI
	HIGH VELOCITY OXY-	HVOF	IDENTIFICATION	IDENT
	FUEL		IDLER	IDL
_				1

THE INFORMATION HEREON IS THE PROPERTY OF CATERPILLAR INC. AND/OR ITS SUBSIDIARIES. WITHOUT WRITTEN PERMISSION, ANY COPYING, TRANSMITTAL TO OTHERS, AND ANY USE EXCEPT THAT FOR WHICH IT IS LOANED, IS PROHIBITED.				
	DATE	CHG NO	NUMBER	
INTERPRETATION AND TOLERANCES - DRAWING	24 MAY 2018	57	1E0011	





IGNITION ILLUMINATION IMPELLER IMPLEMENT (FORMERLY IMP)		IGN ILLUM IMPLR IMPL
IMPROVEMENT INBOARD INCH INCH POUND (ENERGY,	•	IMPROV INBD IN. IN. LB
WORK) INCHES PER SECOND INCLUSIVE INCOMING QUALITY	•	IPS INCL IQA
AUDIT INCORPORATED (CATERPILLAR COMPANY NAME SHALL INCLUDE A PERIOD		INC
(INC.)) INDEPENDENT INDICATED HORSEPOWER	•	INDEP IHP
INDICATED HORSEPOWER HOUR (FORMERLY IHP HR)	•	IHPH
INDICATOR INDUCTION INDUCTION SKULL REMELT		IND IND ISR
INDUSTRIAL (FORMERLY		INDL
IND) INDUSTRIAL OPEN POWER UNIT		IOPU
INDUSTRIAL, SCIENTIFIC, & MEDICAL		ISM
INDUSTRIAL TRUCK		ITA
ASSOCIATION INERTIAL MEASUREMENT		IMU
UNIT INFINITY INFLATABLE INFORMATION INFRARED INGRESS PROTECTION INJECTOR INJECTION INLET (FORMERLY IN.) INLET VALVE ACTUATOR INPUT (FORMERLY IP) INQUIRY INSIDE DIAMETER INSPECTION INSTALLATION INSTALLED	•	INF IFL INFO IR IP INJ INJ INL IVA INP INQ ID INSP INSTL INSTL

INSTITUTE FOR	IPC
INTERCONNECTING	
AND PACKAGING	
ELECTONIC CIRCIUTS	11.10-
INSTRUCTION	INST
INSTRUMENT	INSTR
INSULATED GATE	IGBT
BIPOLAR	
TRANSISTOR INSULATED SHIELDED	10/4/0
WATER COOLED	ISWC
INSULATION	INSULN
INTAKE	INTK
INTEGRAL	INTEG
INTEGRATED	INT
(FORMERLY INTEG)	
INTERGRATED CIRCUIT	ICC
CARD	.00
INTEGRATED COLLISION	ICAS
AVOIDANCE SYSTEM	. 67.16
INTEGRATED CONTROL	ICH
HEAD	
INTEGRATED MAGNETIC	IMS
SWITCH	
INTEGRATED OBJECT	IODS
DETECTION SYSTEM	
INTEGRATED POWER	IPU
UNIT	
INTEGRATED PRODUCT	♦ IPL
LINE	1014
INTEGRATED SENSING	ISM
MODULE INTEGRATED	ITSM
TEMPERATURE	113101
SENSING MODULE	
INTELLECTUAL	IP
PROPERTY	II.
INTEGRATED	IT.
TOOLCARRIER	
INTERCHANGEABLE	INTCHG
INTERFACE	INTFC
INTERIM CORRECTIVE	ICA
ACTION	-
INTERIM SCROLL FUEL	♦ ISFS
SYSTEM	
INTERIOR	INTR
INTERLOCK	INTLK
INTERMEDIATE	INTMD
(FORMERLY INTMED)	
INTERMITTENT	INTMT
INTERNAL	INTL
(FORMERLY INT)	
INTERNAL COMBUSTION	♦ IC
INTERNATIONAL	INTL
INTERNATIONAL	◆ IEC
ELECTROTECHEMICAL	
COMMISSION	

THE INFORMATION HEREON IS THE PROPERTY OF CATERPILLAR INC. AND/OR ITS SUBSIDIARIES. WITHOUT WRITTEN PERMISSION, ANY COPYING, TRANSMITTAL TO OTHERS, AND ANY USE EXCEPT THAT FOR WHICH IT IS LOANED, IS PROHIBITED.					
	DATE	CHG NO	NUMBER		
INTERPRETATION AND TOLERANCES - DRAWING	24 MAY 2018	57	1E0011		





		<u></u>	
INTERNATIONAL	IEC	KILONEWTON	kN
ELECTROTECHNICAL		KILOOERSTEDS	kOe
COMMISSION		KILOPASCAL	kPa
INTERNATIONAL	IMO	KILOPASCAL GAGE	kPaG
_	IIVIO		
MARITIME		KILOVOLT AMP	kVA
ORGANIZATION		KILOWATT	kW
INTERNATIONAL MOBILE	IMEI	KILOWATT HOUR	kW/h
EQUIPMENT IDENTITY		KNIFE	KN
INTERNATIONAL	♦ ISO	KOREAN MARINE	KR
ORGANIZATION FOR		STANDARDS	
STANDARDIZATION		L	
INTERNATIONAL SYSTEM	SI	LADAR	LDR
OF UNITS		LAMINATE	LAM
INTERNATIONAL MOBILE	IMSI	LANDFILL	LNDFL
SUBSCRIBER IDENTITY		LANYARD	LNYD
INTERPRET	INTPR	LARGE	LGE
INTERPRETATION	INTPR	LARGE DIESEL	LDSL
	INTSTG		LGAS
INTERSTAGE		LARGE GAS	
INVERTED	INVD	LARGE MINING TRUCK	LMT
INVERTER	INV	LARGE WHEEL LOADER	LWL
ISOLATION	ISLN	LATERAL	LATL
ITALIAN ROADING	IRH	LATIN AMERICA	LA
HOMOLOGATION		LEAKAGE	LKG
J		LEANING WHEEL	LW
JACKET WATER	JW	LEAST MATERIAL	LMB
JACKET WATER	JWAC	BOUNDARY	
AFTERCOOLED	00000	LEAST MATERIAL	LMC
	JWH	CONDITION	LIVIO
JACKET WATER HEATER			1.004/
JANUARY	JAN	LEAST SIGNIFICANT	LSW
JAPANESE AUTOMOTIVE	JASO	WORD	
STANDARDS		LEFT	L
ORGANIZATION		LEFT FRONT	LF
JET PROPELLANT-8	JP-8	LEFT HAND	LH
JOINT	JT	LEFT HAND DEVICE	LHD
JOINT ELECTRONIC	JEDEC	LEFT HAND ROTATION	LHR
DEVICE ENGINEERING	02520	LEFT REAR	LR
COUNCIL		LENGTH	LG
JOINT TEST ACTION	JTAG	LESSER REGULATED	LG
	JIAG		1.00
GROUP		COUNTRY	LRC
JOULE	J	LEVEL	♦ LVL
JOURNAL	JNL	LEVER	LVR
JOYSTICK	JSTICK	LIFT	LFT
JULY	JUL	LIFTING	LFT
JUMPER	JPR	LIFT INTERRUPT	LFT INTRPT
JUNCTION	JCT	LIGHT	LT
JUPITER TECHNOLOGY	JT	LIGHT-DUTY	LD
JUNE	JUN	LIGHT-EMITTING DIODE	LED
K		LIGHTING	LTG
KICKOUT	KOUT	LIMITED	LTD
		LINEAR	
KILOAMPERE	kA		LIN
KILOBITS PER SECOND	kb/s	LINES	LNS
KILOBYTE (FORMERLY	kB	LINK	LI
KB)		(FORMERLY LK)	
KILOGAUSS	kG	LINKAGE	LKGE
KILOGRAM	kg	LIQUID	LIQ
KILOMETER	km	LIQUID ADDITIVE	♦ LAS
KILOMETER PER HOUR	km/h	SYSTEM	
-		·	1
THE INFORMATION HER	FON IS THE PROPERTY OF CATE	RPILLAR INC. AND/OR ITS SUBSIDIARIES. WITHOUT WRITTE	-N

THE INFORMATION HEREON IS THE PROPERTY OF CATERPILLAR INC. AND/OR ITS SUBSIDIARIES. WITHOUT WRITTEN PERMISSION, ANY COPYING, TRANSMITTAL TO OTHERS, AND ANY USE EXCEPT THAT FOR WHICH IT IS LOANED, IS PROHIBITED.			
	DATE	CHG NO	NUMBER
INTERPRETATION AND TOLERANCES - DRAWING	24 MAY 2018	57	1E0011





LIQUIFIED NATURAL GAS	LNG	LUBRICANT	LUB
LIQUIFIED PETROLEUM	LP	LUBRICATING	LUB
LIQUIFIED PETROLEUM	LPG	LUBRICATION	LUB
GAS		LUMEN	lm
LIQUIFIED PETROLEUM	LPS	M	
SAFETY		MACHINE	MACH
LIP MONITORING	LIPMON	MACHINE DRIVE POWER	MDP
SYSTEM OF SEAL	Ell MOIN	MACHINE SECURITY	MSS
CARTRIDGE		SYSTEM	WOO
LITER	L	MACHINE SHIPPING	MSO
LITERATURE	LIT	ORDER	IVISO
			1440
LITERATURE PACK	LIT PK	MAGNETIC (FORMERLY	MAG
LLOYDS REGISTER OF	LR	MAGC)	Man
SHIPPING		MAGNETIC PARTICLE	MPI
LOAD CENTER ◆	LC	INSPECTION	
LOAD CONTROL VALVE	LCV	MAGNETO (FORMERLY	MGN
LOAD DRIVER MODULE	LDM	MAG)	
LOADER	LDR	MAINFRAME	MNFRM
LOAD LIMITING IDLER	LLIDL	MAINTENANCE	MAINT
LOCAL AREA NETWORK	LAN	MALLEABLE (FORMERLY	MAL
LOCAL OPERATING	LOP	MALL.)	
PANEL		MANAGÉMENT	MGT
LOCATE	LOC	MANDREL	MDRL
LOCATION	LOC	MANEUVER	MANUV
LOCATOR	LOC	MANIFOLD	MANE
LOCK (FORMERLY LCK)	LK	MANUAL (FORMERLY	MNL
LOCKNUT	LKNT	MAN)	IVII VL
LOCKOUT	LKO	MANUAL ON UNIFORM	MUTCD
(FORMERLY LO)	LKO	TRAFFIC CONTROL	MOTOD
LOCK-UP	LKU		
	LKU	DEVICES	MED
(FORMERLY LKUP)	1440	MANUFACTURE	MFR
LOCK-UP CLUTCH	LKUCL	MANUFACTURER	MFR
(FORMERLY LCL)		MANUFACTURING	MFG
LOCKWASHER	LKWSHR	MANUFACTURING	MECC
(FORMERLY LWASH)		EQUIPMENT	
LOG SKIDDER	LGSK	CATERGORY COUNCIL	
LOGGING SPECIAL	LS	MARCH	MAR
LONG BLOCK	LBLK	MARINE	MAR.
LONG UNDERCARRIAGE	LC	MARINE ALARM AND	MAP.
LOW ACCUMULATOR	LO ACCUM PR	PROTECTION	
PRESSURE		MARINE ANALOG POWER	MAPD
LOW CAB FORWARD	LCF	DISPLAY	
LOW COOLANT	LCT	MARINE CERTIFICATION	MCS
TEMPERATURE		SOCIETIES	
LOW CURRENT POWER	LCPD	MARINE ENGINE	MECP
DISTRIBUTION		CONTROL PANEL	0.
LOW EMISSIONS	LE	MARINE GENSET	MGCP
LOW SMOKE HALOGEN	LSHF	CONTROL PANEL	WOOI
FREE	LOTTI	MARINE JUNCTION BOX	MJB
LOWER	LWR		
LOWER	LWR	MARINE POWER DISPLAY	MPD
	LGP	MARINE PROPULSION	MPC800M
PRESSURE	LUD	CONTROL 800 MAIN-	
LOW HORSEPOWER	LHP	PROPULSION	
LOW OVERLAP	LOL	MARINE PROPULSION	MPC800T
LOW PRESSURE	LP	CONTROL 800	
LOW SPEED	LSP	THRUSTER	
LOWER	LWR		

THE INFORMATION HEREON IS THE PROPERTY OF CATERPILLAR INC. AND/OR ITS SUBSIDIARIES. WITHOUT WRITTEN PERMISSION, ANY COPYING, TRANSMITTAL TO OTHERS, AND ANY USE EXCEPT THAT FOR WHICH IT IS LOANED, IS PROHIBITED.			
	DATE	CHG NO	NUMBER
INTERPRETATION AND TOLERANCES - DRAWING	24 MAY 2018	57	1E0011





MARINE PROPULSION	MPP
PROPELLER	
MARINE THRUSTER	MTA
AZIMUTH	WITT
	NATT
MARINE THRUSTER	MTT
TRANSVERSE	
MASS EXCAVATION HOE	MEH
MASS EXCAVATOR	ME
MASS TRANSIT BUS	MTB
MASTER	MA
MATERIAL	MATL
MATERIAL HANDLING	MH
MATERIAL REVIEW	MRB
BOARD	
MATERIAL SAFETY DATA	MSDS
	MSDS
SHEET	
MAXIMUM	MAX
MAXIMUM AFFECTED	MAD
DEPTH	
MAXIMUM FORK HEIGHT	MFH
MAXIMUM MATERIAL	MMB
BOUNDARY	
MAXIMUM MATERIAL	MMC
CONDITION	
MEAN EFFECTIVE	MEP
_	IVILI
PRESSURE	14510
MEASURE	MEAS
MEASURING	MEAS
MECHANICAL	MECH
MECHANICAL	MEUI
ELECTRONIC	
UNIT INJECTOR	
MECHANICAL UNIT	MUI
INJECTOR	
MECHANISM	MECH
MEDIA ACCESS	MAC
CONTROL	MAC
CONTROL	-
MEDIUM	MED
	-
MEDIUM	MED
MEDIUM MEDIUM DIESEL MEDIUM ENGINE LINE	MED MDSL
MEDIUM MEDIUM DIESEL MEDIUM ENGINE LINE MEDIUM OVERLAP	MED MDSL MEL MOL
MEDIUM MEDIUM DIESEL MEDIUM ENGINE LINE MEDIUM OVERLAP MEDIUM SERVICE	MED MDSL MEL MOL MS
MEDIUM MEDIUM DIESEL MEDIUM ENGINE LINE MEDIUM OVERLAP MEDIUM SERVICE MEDIUM WHEEL LOADER	MED MDSL MEL MOL MS MWL
MEDIUM MEDIUM DIESEL MEDIUM ENGINE LINE MEDIUM OVERLAP MEDIUM SERVICE MEDIUM WHEEL LOADER MEGA	MED MDSL MEL MOL MS MWL
MEDIUM MEDIUM DIESEL MEDIUM ENGINE LINE MEDIUM OVERLAP MEDIUM SERVICE MEDIUM WHEEL LOADER	MED MDSL MEL MOL MS MWL
MEDIUM MEDIUM DIESEL MEDIUM ENGINE LINE MEDIUM OVERLAP MEDIUM SERVICE MEDIUM WHEEL LOADER MEGA	MED MDSL MEL MOL MS MWL
MEDIUM MEDIUM DIESEL MEDIUM ENGINE LINE MEDIUM OVERLAP MEDIUM SERVICE MEDIUM WHEEL LOADER MEGA MEGABITS PER SECOND MEGABYTE	MED MDSL MEL MOL MS MWL M mb/s MB
MEDIUM MEDIUM DIESEL MEDIUM ENGINE LINE MEDIUM OVERLAP MEDIUM SERVICE MEDIUM WHEEL LOADER MEGA MEGABITS PER SECOND MEGABYTE MEGABYTES PER	MED MDSL MEL MOL MS MWL M mb/s
MEDIUM MEDIUM DIESEL MEDIUM ENGINE LINE MEDIUM OVERLAP MEDIUM SERVICE MEDIUM WHEEL LOADER MEGA MEGABITS PER SECOND MEGABYTE MEGABYTES PER SECOND	MED MDSL MEL MOL MS MWL M mb/s MB
MEDIUM MEDIUM DIESEL MEDIUM ENGINE LINE MEDIUM OVERLAP MEDIUM SERVICE MEDIUM WHEEL LOADER MEGA MEGABITS PER SECOND MEGABYTE MEGABYTES PER SECOND MEGAGRAM	MED MDSL MEL MOL MS MWL M mb/s MB MBPS
MEDIUM MEDIUM DIESEL MEDIUM ENGINE LINE MEDIUM OVERLAP MEDIUM SERVICE MEDIUM WHEEL LOADER MEGA MEGABITS PER SECOND MEGABYTE MEGABYTES PER SECOND MEGAGRAM MEGAPASCAL	MED MDSL MEL MOL MS MWL M mb/s MB MBPS
MEDIUM MEDIUM DIESEL MEDIUM ENGINE LINE MEDIUM OVERLAP MEDIUM SERVICE MEDIUM WHEEL LOADER MEGA MEGABITS PER SECOND MEGABYTE MEGABYTES PER SECOND MEGAGRAM	MED MDSL MEL MOL MS MWL M mb/s MB MBPS
MEDIUM MEDIUM DIESEL MEDIUM ENGINE LINE MEDIUM OVERLAP MEDIUM SERVICE MEDIUM WHEEL LOADER MEGA MEGABITS PER SECOND MEGABYTE MEGABYTES PER SECOND MEGAGRAM MEGAPASCAL	MED MDSL MEL MOL MS MWL M mb/s MB MBPS
MEDIUM MEDIUM DIESEL MEDIUM ENGINE LINE MEDIUM OVERLAP MEDIUM SERVICE MEDIUM WHEEL LOADER MEGA MEGABITS PER SECOND MEGABYTE MEGABYTES PER SECOND MEGAGRAM MEGAPASCAL MERCHANDISE METALLIC	MED MDSL MEL MOL MS MWL M mb/s MB MBPS MB MDSE MC MDSE MET.
MEDIUM MEDIUM DIESEL MEDIUM ENGINE LINE MEDIUM OVERLAP MEDIUM SERVICE MEDIUM WHEEL LOADER MEGA MEGABITS PER SECOND MEGABYTE MEGABYTES PER SECOND MEGAGRAM MEGAPASCAL MERCHANDISE METALLIC METAL/PLASTIC/METAL	MED MDSL MEL MOL MS MWL M mb/s MB MBPS MG MPa MDSE MET. MPM
MEDIUM MEDIUM DIESEL MEDIUM ENGINE LINE MEDIUM OVERLAP MEDIUM SERVICE MEDIUM WHEEL LOADER MEGA MEGABITS PER SECOND MEGABYTE MEGABYTES PER SECOND MEGAGRAM MEGAPASCAL MERCHANDISE METALLIC METAL/PLASTIC/METAL METAL WORKING FLUIDS	MED MDSL MEL MOL MS MWL M mb/s MB MBPS MB MPA MDSE MET. MPM MWF
MEDIUM MEDIUM DIESEL MEDIUM ENGINE LINE MEDIUM OVERLAP MEDIUM SERVICE MEDIUM WHEEL LOADER MEGA MEGABITS PER SECOND MEGABYTE MEGABYTES PER SECOND MEGAGRAM MEGAPASCAL MERCHANDISE METALLIC METAL/PLASTIC/METAL METAL WORKING FLUIDS METER	MED MDSL MEL MOL MS MWL M mb/s MB MBPS MB MPA MDSE MET. MPM MWF m
MEDIUM MEDIUM DIESEL MEDIUM ENGINE LINE MEDIUM OVERLAP MEDIUM SERVICE MEDIUM WHEEL LOADER MEGA MEGABITS PER SECOND MEGABYTE MEGABYTES PER SECOND MEGAGRAM MEGAPASCAL MERCHANDISE METALLIC METAL/PLASTIC/METAL METAL WORKING FLUIDS METER METER (INSTRUMENT)	MED MDSL MEL MOL MS MWL M mb/s MB MBPS MB MPA MDSE MET. MPM MWF m MTR
MEDIUM MEDIUM DIESEL MEDIUM ENGINE LINE MEDIUM OVERLAP MEDIUM SERVICE MEDIUM WHEEL LOADER MEGA MEGABITS PER SECOND MEGABYTE MEGABYTES PER SECOND MEGAGRAM MEGAPASCAL MERCHANDISE METALLIC METAL/PLASTIC/METAL METAL WORKING FLUIDS METER	MED MDSL MEL MOL MS MWL M mb/s MB MBPS MB MPA MDSE MET. MPM MWF m

METRIC TON	t
MICROINCH	♦ μIN
MICROMETER (MICRON)	μm
MICROPHONE	MIC
MIGRATE	MIG
MILES PER GALLON	♦ MPG
MILES PER HOUR	MPH
MILITARY	MIL
MILITARY STANDARD	MS
MILLIGRAM	mg
MILLILITER	mL
MILLIMETER	mm
MILLIPASCAL	mPa
MILLISECOND	ms
MILLITESLA	mT
MINE SAFETY & HEALTH	MSHA
ADMINISTRATION	
MINI INDUSTRIAL POWER	MIPD
DISPLAY	
MINI MARINE POWER	MMPD
DISPLAY	
MINIMUM	MIN
MINIMUM DESIGN METAL	MDMT
TEMPERATURE	
MINIMUM EFFECIENCY	MERV
REPORTING VALUE	
MINIMUM RADIAL	MRS
SEPARATION	
MINIMUM ZONE	MZ
MINISTRY OF LAND,	MLIT
INFRASTRUCTURE,	
TRANSPORTATION AND	
TOURISM	
MINISTRY OF THE	MOE
ENVIRONMENT	
MINUTE-ANGULAR	* '(MIN)
MINUTE-TIME	min
MIRROR	MIR
MISCELLANEOUS	MISC
MIXING	MXG
MOBIL-TRAC SYSTEM	MTS
MODEL	♦ MOD
MODERATE SERVICE	MS
MODIFY	MOD
MODIFICATION	MOD
MODULATE	MDL
MODULATING	MDL
MODULATING CLUTCH	MDLCL
(FORMERLY MCL)	
MODULE	MOD
MOLYDISULFIDE	MOLY
MOMENTARY	MOM
MONITOR	MON
MONITORING	MON
MOST SIGNIFICANT	MSW
WORD	

THE INFORMATION HEREON IS THE PROPERTY OF CATERPILLAR INC. AND/OR ITS SUBSIDIARIES. WITHOUT WRITTEN PERMISSION, ANY COPYING, TRANSMITTAL TO OTHERS, AND ANY USE EXCEPT THAT FOR WHICH IT IS LOANED, IS PROHIBITED.			
	DATE	CHG NO	NUMBER
INTERPRETATION AND TOLERANCES - DRAWING	24 MAY 2018	57	1E0011





METAL OXIDE	MOSFET	NATURAL GAS ENGINE NGEO
SUBSTRATE FIELD		OIL
EFFECT TRANSISTOR		NATURALLY ASPIRATED NA
MOTOR	MOT	NAVIGATION NAV
MOTOR GRADER	♦ MG	NEGATIVE * -(NEG)
MOUNT	MT	NETHERLANDS NL
MOUNTED	MTD	NEUTRAL/RUN N/RUN
MOUNTING	MTG	NEUTRAL NEUT
MPEG AUDIO LAYER 3	MP3	NEUTRALIZE NEUT
MUFFLER	MUF	NEUTRALIZER NEUT
MULCHING HEAD	MULH HD	NEVER USED ♦ NU
MULTI-APPLICATION	MAEO	NEW JOB START-UP NJSU
ENGINE OIL		NEW PRODUCT ♦ NPI
MULTIPLE	MULT	INTRODUCTION
MULTI-LAYER STEEL	MLS	NEW SCROLL FUEL ♦ NSFS
MULTIPROCESSOR	MP	SYSTEM
MULTIPURPOSE	MP	NEWTON N
MULTIPURPOSE	MTO	NEWTON METER N•m or N.m
TRACTOR		NEXT HIGHER LEVEL NHL
OIL		NEXT LEVEL ♦ N LVL
MULTISHANK	M/S	NEXUS NX
MULTI-STATION	MSCS	NIPPON KAIJI KYOKAI NK
CONTROL SYSTEM	WOOO	NO CHANGE (FORMERLY ♦ NC
N		NO CHG)
NANOMETER	nm	NOMENCLATURE NOMEN
NARROW	NAR	NOMINAL NOM
NARROW GAUGE LONG	♦ NLC	NON • N/
UNDERCARRIAGE	V NEO	NONADHESIVE NONADH
NATIONAL	NATL	NONCONFORMANCE NCM
NATIONAL COOPERATIVE	NCHRP	MANAGEMENT
HIGHWAY RESEARCH	HOTHKI	NONMETALLIC NM
PROGRAM		NON-DESTRUCTIVE NDT
NATIONAL FIRE	NFPA	TESTING
PROTECTION	141174	NON-DRIVE END NDE
ASSOCIATION		NON-ENGINE END NEE
NATIONAL INSTITUTE OF	NIST	NON-ENGINE END FRAME NEEF
STANDARDS AND	14101	NON-MARTENSITIC NMTP
TECHNOLOGY		TRANSFORMATION
NATIONAL INSTITUTE	NIOSH	PRODUCTS
FOR OCCUPATIONAL	1410011	NON-ROLLOVER NROPS
SAFETY AND HEALTH		PROTECTIVE
NATIONAL INSTITUTE	NIOSHA	STRUCTURE
FOR OCCUPATIONAL	111001111	NORMAL (FORMERLY NORM
SAFETY AND HEALTH		NOR.)
ACT		NORMALLY CLOSED N/C
NATIONAL LUBRICATING	NLGI	NORMALLY OPEN N/O
GREASE INSTITUTE	· ·= <del>·</del> ·	NORTH AMERICAN NACD
NATIONAL PIPE TAPER	NPT	COMMERCIAL DIVISION
NATIONAL PIPE TAPER	NPTF	NOT APPLICABLE N/A
FUEL AND OIL		NOT CONNECTED NC
NATIONAL TELEVISION	NTSC	NOT FOR NEW DESIGN → NFND
SYSTEM COMMITTEE		NOT FOR USE WITH ♦ N/F/U/W
NATIONAL VOLUNTARY	NVLAP	NOTICE ONLY ♦ N/O
LABORATORY		NOVEMBER NOV
ACCREDITATION		NOx REDUCTION NRS
PROGRAM		SYSTEM
		NOZZLE NOZ

THE INFORMATION HEREON IS THE PROPERTY OF CATERPILLAR INC. AND/OR ITS SUBSIDIARIES. WITHOUT WRITTEN PERMISSION, ANY COPYING, TRANSMITTAL TO OTHERS, AND ANY USE EXCEPT THAT FOR WHICH IT IS LOANED, IS PROHIBITED.			
	DATE	CHG NO	NUMBER
INTERPRETATION AND TOLERANCES - DRAWING	24 MAY 2018	57	1E0011





NUMBER NO. NUMBERS O NOS. OCCUPATIONAL SAFETY AND HEALTH ACT OCTOBER OCT OCTOBER OCT ODOMETER ODOM OFF HICHWAY TRUCK OFFSET OFS OLIL COLER OLIC	AH IMBED		0000114700		
OCCUPATIONAL SAFETY					
OCCUPATIONAL SAFETY		NOS.		<b>*</b>	
AND HEALTH ACT	0			<b>♦</b>	OZ FT
AND HEALTH ACT	OCCUPATIONAL SAFETY	OSHA	OUNCE INCH	<b>*</b>	OZ IN.
OCTOBER					
DODMETER		OCT			
OFF HIGHWAY TRUCK					
OFFSET OPM OPM OPM OPM OPM OPM OPM OPM OIL OOLCOOLER OIL FILTER OIL MOUNTED COUPLING OIL FILTER OPN OVERALL EXTENDED OVERALL ENGTH OALG OVERALL ENGTH OALG (FORMERLY OAL) OPEN CRANKCASE OCV OVERCURRENT OVER (FORMERLY OAL) OVERCURRENT OVER OVERCURRENT OVER (FORMERLY OAL) OVERLOW OVER OVERLOW OVER OVERLOW OVERLO					
OHM   OIL   O   OIL   OIL   O   OIL					
OIL OLOCOLER OCLR OIL FILTER OFL OIL MOUNTED COUPLING OMC OIL FILTER OFL OIL MOUNTED COUPLING OMC OIL PAN OPN OIL RENEWAL SYSTEM ORS OIL PAN OPN OIL RENEWAL SYSTEM ORS ON-BOARD DIAGNOSTIC- II SYSTEM OPEN OFL OPEN CRANKCASE OCV VERALL ENGTH OALD OPEN CRANKCASE OCV VERALL ENGTH OALD OPEN CRANKCASE OCV VERALL ENGTH OALD OPEN CRANKCASE OCV VERRILOWERED OPL OPEN GEAR LUBRICANT OGL OPEN-PROTECTED OPL LABYRINTH OVER OPL LABYRINTH OVER OPL OPEN TIP OVER OPL OPERATION OPN ORD STRUCTURE OPERATION OPN ORD OPERATION OPN ORD OPERATION OPN ORD OPERATOR PROTECTIVE STRUCTURE OPOSITE OPP OPT OPT OPTIONAL OPERATOR ORD OPN OPT OPRAGAGABH OPN OPN OPT OPRAGAGABH OPN					OIG
OLL COLLER OIL FILTER OIL FILTER OIL FILTER OIL MOUNTED COUPLING OIL OPEN OIL PAIN OIL RENEWAL SYSTEM ORS ON BOARD DIAGROSTIC- II SYSTEM OPEN CRAINCASE VENTILATION OPEN CRAINCASE VENTILATION OPEN GEAR LUBRICANT OPEN GEAR LUBRI	_				0.0
OIL FILTER OIL MOUNTED COUPLING OIL OON COUNTED COUPLING OIL PAN OIL RENEWAL SYSTEM ORS ONE OARS OARS ONE OARS ONE OARS ONE OARS ONE OARS ONE OARS OARS OACO OVER LLOW TO OAL OVER OAL	_				
OIL MOUNTED COUPLING OIL PAIN OIL PAIN OIL RENEWAL SYSTEM ON-BOARD DIAGNOSTIC- IL SYSTEM OPEN CRANKCASE OPEN CR					OOE
OIL PAN OIL RENEWAL SYSTEM ORS ON-BOARD DIAGNOSTIC- II SYSTEM OPEN CRANKCASE OPEN CRANKCASE VENTILATION OPEN GRAL LUBRICANT OPEN CRANKCASE OCV OVERCURRENT OVERLOW OPEN CRANKCASE VENTILATION OPEN GRAL LUBRICANT OPEN CRANKCASE OCV OVERLOW OVERLOW OVERLOD OVERLOD OVERHAUL OVHD OVERHAUL OVHD OVERHAUL OVHL OVHL OVERHAUL OVHL OVHL OVERIDE OVERRIDE OVERRIDE OVERRIDE OVERSIZE OVS OVERSICE OVS OVERSICA OVERSICE OVS OVERSICE OVS OVERSICE OVS OVERSICE OVS OVERSICE OV	=				
OIL RENEWAL SYSTEM ON-BOARD DIAGNOSTIC- II SYSTEM OPEN CRANKCASE OPEN CRANKCASE OPEN GRARIC USBRICANT OPEN ROLLOVER OPEN ROLLOVER OPEN ROLLOVER OPEN TIP OVER OPEN TIP OVER OPEN TIP OVER OPER ATION OPEN ATION OPEN ATION OPEN GRARIC USBRICANT OPEN ATION OPTION ORANGE (FORMERLY OPT) ORANGE (FORMERLY PARK.) OPTION ORANGE (FORMERLY PARK.) OPTION ORANGE (FORMERLY PARK.) PARALLEL PATH PARALLEL P	OIL MOUNTED COUPLING		OVERALL EXTENDED	<b>*</b>	
ON-BOARD DIAGNOSTIC- II SYSTEM OPEN CRANKCASE OCV OVERLUCK VENTILATION OPEN GRAR LUBRICANT OPEN GRAR LUBRICANT OPEN GRAR LUBRICANT OPEN GRAR LUBRICANT OPEN ROLLOVER OPEN-PROTECTED OPEN STRUCTURE OPEN TIP OVER OPERATION OPEN ROLLOVER OVERSIZE OVS OVERSIZE OVS OVERSICA OVS OVERLUAD OVERLOAD OVERLO	OIL PAN	OPN	OVERALL LENGTH		OALG
ON-BOARD DIAGNOSTIC- II SYSTEM OPEN CRANKCASE OCV OVERLUCK VENTILATION OPEN GRAR LUBRICANT OPEN GRAR LUBRICANT OPEN GRAR LUBRICANT OPEN GRAR LUBRICANT OPEN ROLLOVER OPEN-PROTECTED OPEN STRUCTURE OPEN TIP OVER OPERATION OPEN ROLLOVER OVERSIZE OVS OVERSIZE OVS OVERSICA OVS OVERLUAD OVERLOAD OVERLO	OIL RENEWAL SYSTEM	ORS	(FORMERLY OAL)		
I SYSTEM OPEN CRANKCASE OCV OVERCURRENT OC OVERCURITATION OPEN GRAR LUBRICANT OGL OVERLOW OVFL OVERLOAD OVLD OVERD OVERSIZE OVS OVS OVERSIZE OVS OVS OVERSIZE OVS OVERSIZE OVS OVS OVS OVERSIZE OVS OVS OVERSIZE OVS OVS OVS OVERSIZE OVS OVS OVS OVERSIZE OVS OVS OVS OVERSIZE OVS	ON-BOARD DIAGNOSTIC-			<b>*</b>	OALWR
OPEN CRANKCASE VENTILATION OPEN GEAR LUBRICANT OPEN GEAR LUBRICANT OPEN GEAR LUBRICANT OPEN GEAR LUBRICANT OPEN PROTECTED LABYRINTH OPEN ROLLOVER OPEN ROLLOVER OPEN ROLLOVER OPEN ROLLOVER OPEN TIP OVER OPEN TIP OVER OPERATE OPERATE OPERATE OPERATE OPERATE OPERATON OPERATION OPERATION OPERATION OPERATOR OPTION OPTI OPTIONA OPTI OPARALLEL PARA OPTION OPTIONA OPTI OPARALLEL PARALLEL OPPO ORANGE OR OR ORANGE OR OR ORANGE OR ORANGE OR OR ORANGE OR OR ORGANIZATION ORG ORIGIC ORF ORGANIZATION ORG ORIGIC ORGANIZATION ORG ORIGIC ORGANIZATION ORG ORIGIC ORGANIZATION ORG ORIGIC ORGANIZATION ORG ORG ORG ORGANIZATION ORG		- ··			-
VENTILATION OPEN GEAR LUBRICANT OPEN GEAR LUBRICANT OPEN-PROTECTED OPL LABYRINTH OPEN-PROTECTED OPL LABYRINTH OPEN COLLOVER OPEN COLLOVER OPEN COLLOVER OPEN COLLOVER OPEN COLLOVER OPEN COLLOVER OPEN TIP OVER OPEN TIP OVER OPEN TIP OVER OPERATIC OPERATION OPEN COLLOVER OPERATION OPEN OPERATION OPN OPERATION OPN OPERATION OPN OPERATION OPN OPERATOR OPR OPR OPR OPR OPR OPR OPR OPR OPR O		OCV			OC
OPEN GEAR LUBRICANT OPEN-PROTECTED OPL OPEN-PROTECTED OPL OPEN-PROTECTED OPL OVERHADL OVERHADL OVERLOAD OVELLOAD OVELLOAD OVELLOAD OVELLOAD OVELLOAD OVELLOAD OVELLOAD OVELLOAD OVERLOAD OVELLOAD OVELLOAD OVELLOAD OVELLOAD OVELLOAD OVELLOAD OVERLOAD OVELLOAD OVELLOA		00 v			
OPEN-PROTECTED LABYRINTH OPEN ROLLOVER OPEN ROLLOVER OPEN ROLLOVER OPEN TIP OVER OPEN TIP OVER OPEN TIP OVER OPERATE OPERATION OPERATION OPERATION OPERATOR OPEN OPOSITE OPOSITE OPTION	_	OGL			
DABYRINTH OPEN ROLLOVER OVERSIZE OVERSE OVERSIZE OVERSE OVERSIZE OVERSE OVERSIZE OVERSE OVERSIZE					
OPEN ROLLOVER PROTECTIVE STRUCTURE OPEN TIP OVER OPEN TIP OVER OPERATE OPERATE OPERATION OPERATION OPERATION OPERATION OPERATOR OPERATOR OPERATOR OPERATOR OPOSITE OPTIONAL		OPL			
PROTECTIVE STRUCTURE OPEN TIP OVER OPEN TIP OVER STRUCTURE OPERATE OPERATE OPERATE OPERATION OPERATION OPERATION OPERATION OPERATOR OPTO OPTION OPTI OPTION OPTI OPTION OPTI OPTIONAL (FORMERLY OPT) ORANGE (FORMERLY OR) ORANGE (FORMERLY OR) ORANGE OR ORANGE OR OR ORANGE OR OR ORANGE OR OR ORANGE OR OR OR ORANGE OR					
STRUCTURE OPEN TIP OVER PROTECTIVE STRUCTURE OPERATE OPERATE OPERATION OPERATION OPERATION OPERATION OPERATOR OPOSITE OPOSITE OPOSITE OPOSITE OPTION OPTION OPTION OPTION ORANGE (FORMERLY OPT) ORANGE (FORMERLY OPT) ORANGE (WIRE COLOR ONLY) ORGANIZATION ORIFICE ORF ORIFICE ORF ORIFICE ORF ORIFICE ORF ORIGINAL EQUIPMENT MANUFACTURER O-RING FACE SEAL O-RING FORT OSCILLATING OSCOLUTATION OTHER		OROPS			
OPEN TIP OVER PROTECTIVE PROTECTIVE STRUCTURE OPERATE OPERATION OPEN OPERATION OPEN OPERATION OPEN OPERATION OPEN OPERATION OPEN OPERATOR OPOSITE OPP OPTION OPT OPTION OPT OPTION OPT OPTION OPT ORANGE (FORMERLY OPT) ORANGE (WIRE COLOR ONLY) ORAGE ORIGIN ORIGICE ORF ORIGICE ORF ORIGICA ORIGIN ORIGINAL EQUIPMENT ORING FACE SEAL ORING FACE SEAL ORN					
PROTECTIVE STRUCTURE OPERATE OPERATE OPERATE OPERATE OPERATION OPERATION & OMN OPERATION & OMM OPERATION & OMM OPERATION & OMM OPERATOR OPTION OPTI OPTION OPTI OPTION OPTI OPTION OPTI ORANGE (FORMERLY OPT) ORANGE (FORMERLY OR) ORANGE (WIRE COLOR ONLY) ORGANIZATION ORIGORIAL ORIGORIAL ORIGOR ORIGIN ORIGOR ORIGOR ORIGIN ORIGIN ORIGOR ORIGIN ORIGOR ORIGIN ORI					
STRUCTURE OPERATE OPERATE OPERATION OPERATOR OP	OPEN TIP OVER	OTOPS	OXIDATION		OXDN
OPERATE OPERATION OPERATOR O	PROTECTIVE		P		
OPERATE OPERATION OPERATOR O	STRUCTURE		PACKAGE		PKG
OPERATION OPN OPERATION & OMM MAINTENANCE MANUAL OPERATOR OPERATOR OPERATOR OPERATOR OPR OPERATOR OPR OPERATOR OPR OPS STRUCTURE OPOSITE OPP STRUCTURE OPPOSITE OPPOSITE OPP OPTION OPT OPTION OPT OPTIONAL OPT OPTIONAL (FORMERLY OPT) ORANGE (FORMERLY OPT) ORANGE (FORMERLY OR) ORANGE (FORMERLY OR) ORANGE OR (WIRE COLOR ONLY) ORDER ORGANIZATION ORIFICE ORF ORIFICE ORF ORIFICE ORF ORIFICE ORF ORIGIN ORIGI		OPR			
OPERATION & OMM MAINTENANCE MANUAL OPERATOR OPERATOR OPERATOR PROTECTIVE OPS STRUCTURE OPPOSITE OPTION OPTION OPTIONAL (FORMERLY OPT) ORANGE (FORMERLY OR) ORANGE (WIRE COLOR ONLY) ORGANIZATION ORIFICE ORIFICE ORF ORFS ORFS ORFS ORFS ORFS ORFS ORFS					•
MAINTENANCE MANUAL OPERATOR OPS STRUCTURE OPP OPT OPTION OPT OPTION OPT OPTIONAL (FORMERLY OPT) ORANGE (FORMERLY OR) ORANGE (WIRE COLOR ONLY) ORANGE ORIGICE ORF ORIFICE ORF ORIFICE ORF ORIGIN ORIGIN ORIGIN ORIGION ORIGION ORIGIN ORIGION ORIGI			_		PKG
OPERATOR OPR OPERATOR PROTECTIVE STRUCTURE OPPOSITE OPPOSITE OPPOSITE OPTION OPTIONAL (FORMERLY OPT) ORANGE (FORMERLY OR) ORANGE (WIRE COLOR ONLY) ORAGE ORIFICE ORIFICE ORF ORIFICE ORF ORIGIN ORIGIN ORIGIN ORIGIN ORIGIN ORIGIN ORIGIN ORIGIN ORIGIN ORIGION ORIGIN ORIGIN ORIGIN ORIGIN ORIGIN ORIGIN ORIGIN ORIGIN ORIGION ORIGIN ORIC		Civiivi			
OPERATOR PROTECTIVE STRUCTURE OPPOSITE OPPOSITE OPTION OPTIONAL OPTIONAL (FORMERLY OPT) ORANGE (FORMERLY OR) ORANGE (WIRE COLOR ONLY) ORGANIZATION ORIFICE ORF ORIFICED REVERSE ORF ORIGIN ORIG		ODD			
STRUCTURE OPPOSITE OPPOSITE OPTION OPT OPTIONAL OPTL OPTL OPTL OPTIONAL OPTL OPTL OPTL OPTL OPTL OPTL OPTL OPT					PBA
OPPOSITE OPP OPTION OPT OPTIONAL OPT OPTIONAL OPTL (FORMERLY OPT) ORANGE ORN ORANGE OR ORN ORANGE OR ORANGE OR ORAMGE OR ORAMIZATION ORG ORIFICE ORF ORIFICE ORF ORIFICE ORF ORIGIN ORG ORIGINAL EQUIPMENT MANUFACTURER O-RING FACE SEAL O-RING PORT ORP ORC ORC ORIGINAL EQUIPMENT OSCILLATING OSCILLATING OSCILLATING OPP PARAMETER OPART OPARTICLE PARAMETER OPART ORP ORAMICATION ORP PARTICLE PARTICLE PARTICLE PARTICULATE PARTICULATE PARTICULATE PART OPART OPART OPART OPART OPARTICULATE PARTICULATE PARTICULATE PART OPART OPART OPART OPART OPART OPART OPARTICULATE PARTICULATE PARTI		042			
OPTION OPT OPTIONAL OPTL (FORMERLY OPT) ORANGE ORN ORNORANGE OR ORNORANGE OR ORNORANGE OR ORDER ORD ORGANIZATION ORG ORIFICE ORF ORIFICE ORF ORIGINAL EQUIPMENT ORIGINAL EQUIPMENT ORING FACE SEAL ORP ORNORANGE ORF ORNORANIZATION ORF ORIGINAL EQUIPMENT ORIGINAL		055			
OPTIONAL (FORMERLY OPT) ORANGE (FORMERLY OR) ORANGE (FORMERLY OR) ORANGE (WIRE COLOR ONLY) ORGANIZATION ORIFICE ORF ORIFICED REVERSE ORF ORIGIN ORIGI			PANTOGRAPH		PANT.
OPTIONAL (FORMERLY OPT) ORANGE (FORMERLY OR) ORANGE (FORMERLY OR) ORANGE (WIRE COLOR ONLY) ORAGE OR			PARAGRAPH		PARA
(FORMERLY OPT) ORANGE ORN (FORMERLY OR) ORANGE OR OR ORAMETER OPP ORAMETER ORG ORGANIZATION ORIFICE ORF ORIFICE ORF ORIFICE ORF ORIFICE ORF ORIGIN ORIGIN ORIGINAL EQUIPMENT ORIGINAL EQUIPMENT ORIGINAL EQUIPMENT ORIGINAL FACE SEAL ORFS ORP	= = =	OPTL		*	// (PRL)
ORANGE (FORMERLY OR) ORANGE (WIRE COLOR ONLY) ORGANIZATION ORIFICE ORF ORF ORIFICE ORF ORIGIN ORIGIN ORIGINAL EQUIPMENT MANUFACTURER O-RING FACE SEAL O-RING PORT	(FORMERLY OPT)				` /
(FORMERLY OR)       OR       PARALLEL PATH VARIABLE       PPV         (WIRE COLOR ONLY)       ORD       PARAMETER       PRMTR         ORDER       ORD       PARAMETER GROUP       PGN         ORGANIZATION       ORG       NUMBER         ORIFICE       ORF       PARKING       PRKG         ORIFICED REVERSE       ORFC       (FORMERLY PARK.)       PRKG         FLOW CHECK       PARKING BRAKE       PRKG BK         ORIGINAL EQUIPMENT       OEM       PART       PT         MANUFACTURER       ORFS       PARTIAL       PART         O-RING FACE SEAL       ORFS       PARTIAL MACHINE       P/M         O-RING PORT       ORP       PARTICLE       PTCL         OSCILLATING       OSC       PARTICULATE       PTCLT         OSCILLATING       OSCG       PART NUMBER       P/N		ORN			PRI G
ORANGE (WIRE COLOR ONLY)  ORDER ORGANIZATION ORGANIZATION ORIFICE ORIFICE ORIFICE ORIFICE ORIFICE ORIFICE ORIGIN ORIGINAL EQUIPMENT MANUFACTURER O-RING FACE SEAL O-RING PORT O-RING PORT OSCILLATE OSCILLATING ORD	(FORMERLY OR)		_		
(WIRE COLOR ONLY)       ORD       PARAMETER       PRMTR         ORDER       ◆ ORD       PARAMETER GROUP       PGN         ORGANIZATION       ◆ ORG       NUMBER         ORIFICE       ORF       PARKING       PRKG         ORIFICED REVERSE       ORFC       (FORMERLY PARK.)       PRKG         FLOW CHECK       PARKING BRAKE       PRKG BK         ORIGIN       ◆ ORIG       (FORMERLY PARK. BK)         ORIGINAL EQUIPMENT       OEM       PART       ◆ PT         MANUFACTURER       PARTIAL       PART       ◆ PARTIAL         O-RING FACE SEAL       ORFS       PARTIAL MACHINE       P/M         O-RING PORT       ORP       PARTICLE       PTCL         OSCILLATE       OSC       PARTICULATE       PTCLT         OSCILLATING       OSCG       PART NUMBER       P/N		OR			1 I V
ORDER ORGANIZATION ORG ORGANIZATION ORG ORIFICE ORF ORIFICED REVERSE ORFC FLOW CHECK ORIGIN ORIGINAL EQUIPMENT MANUFACTURER O-RING FACE SEAL O-RING PORT O-RING PORT OSCILLATE OSCILLATING ORD ORF ORG NUMBER PARAMETER GROUP NUMBER PARKING (FORMERLY PARK.) PARKING BRAKE (FORMERLY PARK. BK) PART PARTIAL PART PARTIAL PART PARTIAL PARTICLE PARTICLE PARTICULATE PART POTCL PARTICULATE PART NUMBER		<del>*</del> : •			DDMTD
ORGANIZATION		♦ ORD		•	
ORIFICE ORIFICED REVERSE ORFC FLOW CHECK ORIGIN ORIGINAL EQUIPMENT O-RING FACE SEAL O-RING PACE SEAL O-RING PORT O-RING PORT OSCILLATE OSCILLATING ORF ORFC ORFC (FORMERLY PARK.) PARKING BRAKE (FORMERLY PARK. BK) PART PARTIAL PART PARTIAL PARTIAL PARTICLE PARTICLE PARTICLE PARTICULATE PARTICULATE PART PARTICULATE PARTICULATE PARTICULATE PART PARTICULATE PARTICULATE PART POPULATION PARTICULATE PART PARTICULATE PARTICULATE PART NUMBER	_				PGN
ORIFICED REVERSE FLOW CHECK ORIGIN ORIGINAL EQUIPMENT MANUFACTURER O-RING FACE SEAL O-RING PORT O-RING PORT OSCILLATE OSCILLATING ORFC  (FORMERLY PARK.) PARKING BRAKE (FORMERLY PARK. BK) PART PARTIAL PARTIAL PARTIAL PARTIAL PARTICLE PARTICLE PARTICULATE PARTICULATE PARTICULATE PART PARTICULATE PARTICULATE PARTICULATE PART PARTICULATE PARTICULATE PART NUMBER					
FLOW CHECK ORIGIN ORIGIN ORIGINAL EQUIPMENT MANUFACTURER O-RING FACE SEAL O-RING PORT OSCILLATE OSCILLATING OSCILLATING ORIGIN O					PRKG
ORIGIN ORIGINAL EQUIPMENT OEM MANUFACTURER O-RING FACE SEAL O-RING PORT OSCILLATE OSCILLATING ORIG ORIGINAL EQUIPMENT OEM PART PARTIAL PARTIAL PARTIAL PARTIAL PARTIAL PARTIAL PARTIAL PARTICLE PARTICLE PARTICULATE PART NUMBER		URFU	· · · · · · · · · · · · · · · · · · ·		
ORIGINAL EQUIPMENT  MANUFACTURER  O-RING FACE SEAL  ORFS  O-RING PORT  OSCILLATE  OSCILLATING			PARKING BRAKE		PRKG BK
ORIGINAL EQUIPMENT  MANUFACTURER  O-RING FACE SEAL  O-RING PORT  OSCILLATE  OSCILLATING  OSCILLATING  OSCILLATING  OSCILLATION  OSCILLA			(FORMERLY PARK. BK)		
MANUFACTURER O-RING FACE SEAL ORFS O-RING PORT ORP OSCILLATE OSCILLATING OSCG PARTIAL PART PARTIAL PART PARTIAL PART PARTIAL PARTIAL PART PART PARTIAL PART PART PART PART PART PART PART PART	ORIGINAL EQUIPMENT	OEM		<b>*</b>	PT
O-RING FACE SEAL ORFS O-RING PORT ORP OSCILLATE OSCILLATING OSCG OSCILLATION OSCILLATION OSCG OSCG OSCILLATION OSCG OSCG OSCILLATION OSCG OSCO OSCILLATION OSCG OSCO OSCILLATION OSCG OSCILLATION OSCG OSCO OSCO OSCILLATION OSCG OSCO OSCILLATION OSCG OSCO OSCO OSCO OSCO OSCO OSCO OSCO	MANUFACTURER		PARTIAL		
O-RING PORT ORP OSCILLATE OSC PARTICLE PTCL OSCILLATING OSCG PART NUMBER P/N	O-RING FACE SEAL	ORFS			
OSCILLATE OSC PARTICULATE PTCLT OSCILLATING OSCG PART NUMBER P/N	O-RING PORT	ORP			
OSCILLATING OSCG PART NUMBER P/N		_	_		
OCCULATION COO					
PAK 15 PEK MILLION PPM					
	COOLETTION		PAK 15 PEK MILLIUN		PPIVI

THE INFORMATION HEREON IS THE PROPERTY OF CATERPILLAR INC. AND/OR ITS SUBSIDIARIES. WITHOUT WRITTEN PERMISSION, ANY COPYING, TRANSMITTAL TO OTHERS, AND ANY USE EXCEPT THAT FOR WHICH IT IS LOANED, IS PROHIBITED.			
	DATE	CHG NO	NUMBER
INTERPRETATION AND TOLERANCES - DRAWING	24 MAY 2018	57	1E0011





PART SUBMISSION   PSW   WARRANT   PASCAL   Pa   PATENT					
PASCAL PATENT PAYEMENT PAYEMENT PAYEMENT PAYEMENT PAYEMENT PAYLOAD PLATE PAYLOAD PLATE PAYLOAD PEAK TO VALLEY HEIGHT AVERAGE PEAK TO VALLEY OUT OF ROUNDINES PENDULUM PENETRATE PENETRATE PENETRATE PENETRATE PENETRATION PERFORMANCE POSITION POSITIVE CRANKCASE PCV PHYSICAL PHYS POSITION POSITIVE CRANKCASE PCV PHYSICAL PHYS PILLOT PLT PILLOT PLT PILOT PLT PILOT PLT PILOT PLT PILOT PLT PILOT PLT PINK (FORMERLY P) OR PILOT PILOT PLT PINK (FORMERLY P) OR PINN PISTON LINK PL PINN PISTON RADIAL PR PISTON LINK PR PISTON SLIPPER PS POUND FORCE PSI PINN PSTON LINC PR POWDER SQUARE PSI PICOT PR POWDER METAL POW POWDER SQUARE PSI PICOT PR POWDER METAL PM POWDER META	PART SUBMISSION	PSW	PLASMA TRANSFERRED		PTWA
PATENT	WARRANT		WIRE ARC		
PATENT	PASCAL	Pa	PLATE		PLT
PAVEMENT PAYUND PLO PAYUNDAD PLO PAYUNDAD PLO PAYUNDAD PLO PEAK TO VALLEY HEIGHT AVERAGE PEAK TO VALLEY OUT OF RONIT ROUNDINES PENDULUM PENETRATE PENETRATION PENETRATE PENETRATION PERF PENETRATION PERF PENETRATION PERF PENETRATION PERF PERF PENETRATION PERF PERF PENETRATION PERF PERF PERF PENETRATION PERF PERF PERF PERF POLLARITY PERF PERF POLARITY PERF POSITION POSITIVE CRANKCASE PCV PHYSICAL PHYS POSITIVE CRANKCASE PCV PHYSICAL PHYS PILLOT PILLOT PILLOT PILT PILOT PILOT PILT POSITIVE CRANKCASE PCV POSI			PLATFORM		
PAYLOAD   PAKTO VALLEY HEIGHT   Rz   Rz   REQUIREMENT   PRS   PR	=		_		
PEAK TO VALLEY HEIGHT   RZ   PLATFORM   PRS     AVERAGE   PEAK TO VALLEY OUT OF ROUNDINGS     PENDETRATE   PEN			I -		ווט
PARK TO VALLEY OUT OF RONT POAR TO VALLEY OUT OF ROUNDNESS PENDULUM PART OF VALLEY OUT OF ROUNDNESS PENDULUM PART OF PRODUCTION PER PRODUCTION PER OF PRODUCTION PER PRODUCTION PER OF PRODUCTION PER PRODUCTION PER OF PRODUCTION P	_				DDO
PEAK TO VALLEY OUT OF ROUNDINGS   POINT   POINT   PC		Rz	_		PRS
ROUNDNESS PENDULUM PENETRATE PEN PENDULUM PENETRATE PEN PENETRATION PEN PENETRATION PEN PERFATATION PEN PERFATATION PERF PERFORATE PERF PERFORATE PERF PERFORATE PERFORMANCE POLYALKYLENE GLYCOL PAG POLYVINVI CHLORIDE PVC CONTROLLER PORTABLE PORTABLE PORTABLE PORTABLE PORTABLE PORTABLE PORTABLE PORTABLE POSITION POSITIVE PRES POSITION SENSING PSC PSC POSITIVE PRES POSITIVE POSITIVE REARNCASE PCV POSITIVE REARNCASE PCV POSITIVE PIN POSITIVE REARNCASE PCV POSITIVE REVERSE PRV PRILLOW PLLW (INVERSE) VOLTAGE PILT HS) PILOT OPERATED PLT HS PILOT OPERATED PLT HS POT. POT. PILOT OPERATED PLT HS POT. POUND POT. POT. POT. POT. POT. POT. POT. POT.	_				
PENDULUM PNOLM PENTATE PEN PLOW CHAIN PLC PENETRATE PEN PEN PEN PLUNGER PLGR PLGR PENETRATION PEN PEN PEN PLUNGER & BARREL PAB PLOR PERCENT % (PCT) PERFORATION PERF POINT PT PERFORATION PERF POINT PT POINT PT PERFORATION PERF POINT PT POINT PT PERFORATION PERF POINT PT POINT PT POINT PT PERFORATION PERF POINT PT POINT PT PT PERFORATION PERFORATION PERF POINT PT POINT PT PT PERFORATION PERFORATION PERFORATION POINT PT POINT PT POINT PT PT PERFORATION PERFORATION POINT PT POINT PT PT POINT PT PT POINT PT PT PERFORATION POINT PT PT POINT PT	PEAK TO VALLEY OUT OF	RONt			
PENETRATE   PEN   PEN   PEN   PEN   PENETRATION   PENETRATION   PENETRATION   PENETRATION   PENETRATION   PERF   PNEUMATIC   PNEU   PNEUMATIC   PNEU   PNEUMATIC   PNEU   PNEUMATIC   PNEU   PNEUMATIC   PNEU   PNEUMATIC   PNEU   PNEUMATIC   PNEUM	ROUNDNESS		PLEASURE CRAFT		PC
PENETRATE   PEN   PEN   PEN   PEN   PENETRATION   PENETRATION   PENETRATION   PENETRATION   PENETRATION   PERF   PNEUMATIC   PNEU   PNEUMATIC   PNEU   PNEUMATIC   PNEU   PNEUMATIC   PNEU   PNEUMATIC   PNEU   PNEUMATIC   PNEU   PNEUMATIC   PNEUM	PENDULUM	PNDLM	PLOW CHAIN		PLC
PENETRATION   PEN   PEN   PEN   PERF   PERFORATION   PERFORATION   PERF   PERFORATION   PERF   PERFORATION   PERF   PERFORATION   PERF   POLYALKYLENE GLYCOL   PAG   POLYPITHALAMIDE   PPA   POLYNIN'LE (HURDINE CONTROLLER   POLYON'N'LE (HURDINE CONTROLLER   POSTITION   POSTITIO			PLUNGER		
PERCENT					
PERFORATE   PERF   PERF   PERFORMANCE   PERFORMANCE   PRFM   POLARITY   PLRT   POLARITY   PLRT   POLARITY   PERFORMANCE   PRFM   POLARITY   POLY ALKYLENE GLYCOL   PAG   PERFIPHERAL INTERFACE   PID   POLY ALKYLENE GLYCOL   PAG   POLY PHTHALAMIDE   PPA   POLY ALKYLENE GLYCOL   PAG   POLY PHTHALAMIDE   PPA   POLY ALKYLENE GLYCOL   PAG   POLY PHTHALAMIDE   PPA   POLY ALKYLENE GLYCOL   PAG   POLY PHTHALAMIDE   PAG   POLY PHTHALAMIDE   PAG   POLY PHTHALAMIDE   PORT.   POLY ALKYLENE GLYCOL   PAG   POLY PHTHALAMIDE   PAG   POLY PHTHALAMIDE   POLY POLY POLY PHTHALAMIDE   POLY POLY POLY POLY POLY POLY POLY POLY				•	
PERFORMANCE PERFORMANCE PERFORMANCE PERFORMANCE PERFORMANCE PERPHERAL INTERFACE CONTROLLER CONTROLLER PERMANENT PERMORE ACTION PERPENDICULAR PERSONALITY PERS POSITION SENSING PSC CYLINDER PHASE ALTERNATE LINE PHAL PHASE ALTERNATE LINE PHONE PHYSICAL PHYS PHYSICAL PHYS PHYSICAL PHYS POSITION SENSOR PS POSITIVE CRANKCASE PCV POSITIVE PIN POSITIVE PIN PPR POSITIVE PIN PSN POSITIVE PIN PSN PSN  POSITIVE PIN PSN PSN POSITIVE PIN PSN PSN PSN PSN PSN PSN PSN PSN PSN POSITIVE PIN PSN PSN PSN PSN PSN PSN PSN PSN POSITIVE PIN PSN PSN PSN PSN PSN PSN PSN POSITIVE PIN PSN PSN PSN PSN PSN PSN POSITIVE PIN PSN PSN PSN PSN PSN PSN POSITIVE PIN PSN PSN PSN PSN POSITIVE PIN PSN PSN PSN PSN POSITIVE PIN PSN PSN PSN PSN PSN PSN POSITIVE PSN	_				
PERFORMANCE   PRFM   POLY ALKYLENE GLYCOL   PAG   PRFM   PREM   PREM   POLY PHTHALAMIDE   PAG   POLY PHTHALAMIDE   PAG   PORT.   POR	_		I -		
PERIPHERAL INTERFACE   PID   POLYPHTHALAMIDE   PPA   POTANTOLLER   PERM   POTANTOLLER   POTANTOLLE					
CONTROLLER PERMANENT PERMANENT PERMANENT PERMANENT PERMANENT PERMANENT PERMANENT PERMANENT POCA  ACTION PERPENDICULAR PERSONALITY PERS PETRO PETROLEUM PHASE ALTERNATE LINE PHONE PHONE PHONE PHONE PHONE PHYSICAL PHYS PIECE PC PILLOW PIECE PC PILLOW PILOT PICORMERLY PHOR PINK (FORMERLY P) PINK PINON PINN PINN PINN PINN PINN PINN POUND FORCE PINN PINN PINN POUND FORCE PINN PINN PISTON PISTON PISTON PISTON PISTON PISTON PISTON PISTON SENSOR PS POSITIVE CRANKCASE PCV VENTILATION PPR POSITIVE PINN PPR POSITIVE REVERSE PRV (INVERSE) VOLTAGE PILOT POTENTIAL POTENTIAL PT TRANSFORMER POTENTIOMETER POTENTIOMETER POTENTIOMETER POTENTIOMETER POTENTIOMETER POUND FORCE LBF PINN PINN POUND FORCE LBF PINCH POUND FORCE LBF PISTON PISTON SLIPPER PS PISTON SLIPPER PS POWER PAW PWR PITCH LINE RUN-OUT PLRO PUND POWER PAW MODULE POWER PAM MODULE POWER COMPENSATOR POMP POWER COMPENSATOR POMP POWER COMPENSATOR POMP POWER CONTROL INPUT PLANET.) PLANET.) PLANET.) PLANET.) PLANET.) PLANET.) PLANET.) PLANET.) PLANET.) PLANINING (FORMERLY PLANET.) PLANET.) PLANET.) PLANET.) PLANET.) PLANET.) PLANET.) PLANET.) PLANET.) PERM PORT. POSTITION (FORMERLY POSS) PSOSITION (FORMERLY POSS) PSOSITION (FORMERLY POSS) PSOSITION (FORMERLY POSS) PSOSITION (INFO POSSITION PSN  (YCINDER PSNR PSOSITION PSN  (YCINDER POSSITION (INVERSE) POSITIVE (* 4(POS) POSSITIVE (* 4(POS) PSOSITION PSN  (YCINDER POSSITION (INVERSE) POSSITIVE (* 4(POS) POSSITIVE (* 4(POS) PSOSITION PSOSITION PSN  (YCINDER POSSITION (INVERSE) POSSITIVE (* 4(POS) POSSITIVE (* 4(	PERFORMANCE		POLY ALKYLENE GLYCOL		
PERMANENT PERMANENT PERMANENT CORRECTIVE ACTION PERPENDICULAR PERPENDICULAR PERPENDICULAR PERPENDICULAR PERPENDICULAR PERPENDICULAR PERPENDICULAR PERPENDICULAR PERSONALITY PERS POSITIONING POSITIONING PSNG PSNG PSNG PSNG POSITIONING PSNG PSNG PSNG PSNG PSNG PSNG POSITIONING PSNG PSC CYLINDER PHASE ALTERNATE LINE PHAL PHONE PHONE PHYSICAL PHYS PHYSICAL PHYSICAL PHYS POSITIVE CRANKCASE PCV POSITIVE POSITIVE CRANKCASE PCV POSITIVE PIN PPR POSITIVE REVERSE PRV POSITIVE REVERSE PRV PRV PRILLOT PLIT POTENTIAL POTENTIAL POT. PILOT PLT POTENTIAL POT. POUND PIN POUND PIN POUND PIN POUND POSITIVE REVERSE PRV POTENTIAL POT. POUND POUND POT. POUND POUN	PERIPHERAL INTERFACE	PID	POLYPHTHALAMIDE		PPA
PERMANENT PERMANENT PERMANENT CORRECTIVE ACTION PERPENDICULAR PERPENDICULAR PERPENDICULAR PERPENDICULAR PERPENDICULAR PERPENDICULAR PERPENDICULAR PERPENDICULAR PERSONALITY PERS POSITIONING POSITIONING PSNG PSNG PSNG PSNG POSITIONING PSNG PSNG PSNG PSNG PSNG PSNG POSITIONING PSNG PSC CYLINDER PHASE ALTERNATE LINE PHAL PHONE PHONE PHYSICAL PHYS PHYSICAL PHYSICAL PHYS POSITIVE CRANKCASE PCV POSITIVE POSITIVE CRANKCASE PCV POSITIVE PIN PPR POSITIVE REVERSE PRV POSITIVE REVERSE PRV PRV PRILLOT PLIT POTENTIAL POTENTIAL POT. PILOT PLT POTENTIAL POT. POUND PIN POUND PIN POUND PIN POUND POSITIVE REVERSE PRV POTENTIAL POT. POUND POUND POT. POUND POUN	CONTROLLER		POLYVINYL CHLORIDE		PVC
PERMANENT CORRECTIVE ACTION PERPENDICULAR PERSONALITY PERSONALITY PERSONALITY PERSONALITY PERSONALITY PHASE ALTERNATE LINE PHASE ALTERNATE LINE PHONE PHYSICAL PHYS POSITIVE PIN POSITIVE P		PERM			PORT.
CORRECTIVE ACTION PERPENDICULAR PERPENDICULAR PERSONALITY PERS PERSONALITY PERS PETROLEUM PHASE ALTERNATE LINE PHONE PHYSICAL POSITIVE CRANKCASE PCV VENTILATION POSITIVE PIN POSITIVE PRIN POTENTIAL POT. PILOT POTENTIAL POT. PILOT POTENTIAL POT. PILOT POTENTIAL POT. PILOT POTENTIAL POT. POUND FOR CRE  LBF POUND FOR CROUPE  POUND PER SQUARE PSI INCH, GUAGE POWER ANALYZER PAM. MODULE POWER ANALYZER PAM. MODULE POWER COMPENSATOR POWER POWER CONTROL PCO POWER CONTROL					
ACTION PERPENDICULAR PERPONALITY PERS PERSONALITY PERS PETROLEUM PHASE ALTERNATE LINE PHYS PHYSICAL PHYS PERS POSITION SENSOR PS POSITIVE CRANKCASE PCV POSITIVE PIN POSITIVE PIN POSITIVE PIN PPR POSITIVE PIN PPS POSITIVE PIN PPR POSITIVE CRANKCASE PCV VENTILATION PS POSITIVE PIN PPR POTANICAL PPT TRANSFORMER POTENTIAL PT TRANSFORMER PR POTENTIAL PT TRANSFORMER PR POTENTIAL PT TRANSFORMER POUND TO		1 6/1			1 0014
PERPENDICULAR PERSONALITY PERSONALITY PETROLEUM PHASE ALTERNATE LINE PHONE PHYSICAL PHYS POSITIVE CRANKCASE PCV VENTILATION POSITIVE PIN PPR RETENSION POSITIVE REVERSE PRV PRV PRV PRV PRIVITIVE REVERSE PRV PRV PRIVITIVE REVERSE PRV PRV PRIVITIVE REVERSE PRV PRV PRIVITIVE REVERSE PRV PRIVITIVE REVERSE PRV PRV PRIVITIVE REVERSE PRV PRV PRIVITIVE REVERSE PRV PRIVITIVE REVERSE PRV POTENTIAL PT TRANSFORMER POTENTIAL PR POUND FOOT (TORQUE) LB BT POUND FRCE LBF POUND FRCE PL POUND FRCE LBF PR POUND FRCE PSI INCH POUND PER SQUARE PSI PRITON LINK PL POUND PER SQUARE PSI PRITON RADIAL PR PRITON RADIAL PR PRITOH DIAMETER PD POWER METAL PM POWER ANALYZER PAM. PLANETARY (FORMERLY PLANET.) PLANET.) PLANET.) PLANET.) PLANET.) PLANET.) PLANET.) PLANET.) PLANET.) PLANING (FORMERLY PLANT PLANT PLANT PLANT PLANT PLANT PLANT POWER CONTROL PCO POWER POW			,		DOND
PERSONALITY PETROLEUM PHASE ALTERNATE LINE PHASE ALTERNATE LINE PHONE PHASE ALTERNATE LINE PHYS PHYSICAL PHYS PHYSICAL PHYS PHYSICAL PHYS POSITIVE	ACTION	+ (252)			
PETROLEUM PHASE ALTERNATE LINE PHONE	PERPENDICULAR				
PHASE ALTERNATE LINE PHONE PHONE PHONE PHYSICAL PHYS POSITIVE CRANKCASE PCV VENTILATION POSITIVE PIN POSITIVE REVERSE PRV (INVERSE) VOLTAGE PICTORIAL POT. PILOT HOUSE PLT POTENTIAL POT. POT. POT. POT. POT. POT. POT. POT.		_			PSC
PHONE PHYSICAL PHYSICAL PHYS PHYSICAL VAPOR DEPOSITION DEPOSITION PICKUP PHECE PC PILLOW PILOT PILOT PLT HS (FORMERLY PH OR PILT HS) PINK (FORMERLY P) PINNON PINNON PINNON PINNON PISTON LINK PISTON RADIAL PISTON RADIAL PISTON SLIPPER PITCH DIAMETER POTE PITCH DIAMETER PD PU POUND POSITIVE RAVERSE PC POV PRETENSION POSITIVE PIN POSITIVE RAVERSE PCV POSITIVE RAVERSE PRV (INVERSE) VOLTAGE PROSITIVE RAVERSE PRV (INVERSE) VOLTAGE PROSITIVE RAVERSE PRV (INVERSE) VOLTAGE POTENTIAL POUND FORCE POURD ROCAC PICTOR POURD ROCAC PICTOR POURD ROCAC POTEN	PETROLEUM	PETRO	CYLINDER		
PHYSICAL PHYS PVD PVD PVD PVD PVSITIVE CRANKCASE PCV PVD PHYSICAL VAPOR PVD	PHASE ALTERNATE LINE	PAL	POSITION SENSOR		PS
PHYSICAL PHYS PVD PVD PVD PVD PVSITIVE CRANKCASE PCV PVD PHYSICAL VAPOR PVD	PHONE	♦ PH	POSITIVE	*	+(POS)
PHYSICAL VAPOR DEPOSITION PICKUP PIECE PILLOW PIECE PILLOW PILLOW PILOT PILOT PILOT PILOT OPERATED PINN PORMERLY P) PINN PINN PINN PINN PIPELAYER PISTON POUND POUND POSITIVE REVERSE PRV  (INVERSE) VOLTAGE POTENTIAL POTENTIAL POTENTIAL PT TRANSFORMER POTENTIAL PT TRANSFORMER POTENTIAL PT TRANSFORMER POTENTIAL PT TRANSFORMER POUND	PHYSICAL	PHYS	POSITIVE CRANKCASE		
DEPOSITION PICKUP PIECE PILOW PIECE PILLOW PILOT PILOT PILOT PILOT PILOT PLT PILOT PLT PILOT POTENTIAL POTENTIOMETER POUND FORCE LB FT POUND PER SQUARE PSI INCH POUND PER SQUARE PSI INCH, GUAGE PISTON SLIPPER POWER POWER METAL PIM POWER P					
PICKUP PIECE PC PC PILLOW PIECE PC PC POSITIVE REVERSE PRV  (INVERSE) VOLTAGE POT. PILOT HOUSE (FORMERLY PH OR PLT HS) PILOT OPERATED PINK (FORMERLY P) PINN PINN PIPELAYER PISTON PISTON LINK PISTON RADIAL PISTON SLIPPER PISTON SLIPPER PITCH PITCH PITCH POMB PITCH PITCH POMB PITCH POMB PITCH POMB PITCH POMB POMB POMB POMB POMB POMB POMB POMB		1 12			DDD
PIECE PILLOW PILLOW PILOT PILOT PICT PICT PICT PICT PICT PICT PICT PIC		DII			TTIX
PILLOW PILOT PILOT PILOT HOUSE PLT HS PCTENTIAL POTENTIAL POTENTIA					DD\/
PILOT PILOT HOUSE PLT HS  (FORMERLY PH OR PLT HS) PILOT OPERATED PINK (FORMERLY P) PINION PIN. PIPELAYER PISTON RADIAL PISTON SLIPPER PISTON SLIPPER PITCH PISTON ENTRY PITCH PINE PITCH PINE PITCH PINE PITCH POTENTIAL POTENTICH POTETTICH POTENTICH	_	_			PRV
PILOT HOUSE (FORMERLY PH OR PLT HS) PILOT OPERATED PINK (FORMERLY P) PINION PIN. PIPE PIPE PISTON PISTON RADIAL PISTON SLIPPER PISTON SLIPPER PITCH PICAGES PL POMER POTENTIAL TRANSFORMER POTENTIAL TRANSFORMER POTENTIAL TRANSFORMER POTENTIAL TRANSFORMER POTENTION TRANSFORMER POTENTION TRANSFORMER POTENTION POUND FORCE POUND FORCE POUND FORCE POUND PER SQUARE POUND PER SQUARE POWER METAL P/M POWER METAL P/M POWER METAL P/M POWER ANALYZER PAS STAIRWAY POWER ANALYZER PAM. POWER COMPENSATOR POWER COMPENSATOR POWER CONTROL POWER POT.  POT.  TRANSFORMER POT.  POT.  TRANSFORMER POT.  POT.  TRANSFORMER POT.  POT.  TRANSFORMER POT. POT.  POT.  POT.  POUND FORCE  • LB FT  • LB IN.  POUND PER SQUARE PSI INCH, GUAGE  PSI INCH, GUAGE  POWER METAL P/M POWER ANALYZER PAM.  POWER ANALYZER PAM.  POUND FORCE  • LB FT  • LB IN. POUND FORCE • LB FT  • LB IN. POUND FORCE • LB FT  • LB IN. POUND FORCE • LB FT  • LB IN. POUND PER SQUARE PSI INCH INCH POWER SQUARE PSI INCH POWER CONTROL P/M POWER POW	_				
(FORMERLY PH OR PLT HS) PILOT OPERATED PLT OPR PINK (FORMERLY P) PK PINION PIN. PIPE PP POUND FORCE LBF PIPE PP POUND INCH (TORQUE) LB IN. PIPELAYER PL POUND PER SQUARE PSI PISTON PSTN INCH POUND PER SQUARE PSI PISTON SLIPPER PS POWDER METAL P/M PITCH DIAMETER PD POWER POWER PWR PITCH DIAMETER PD POWER STAIRWAY PITCH LINE RUN-OUT PLRO PILOT PVT POWER STAIRWAY PLANET.) PLANNING (FORMERLY PNG PLANN.) PLANTIT  ▶ PL  TRANSFORMER POTENTIOMETER POUND POUND FORCE LB FT POUND FORCE LBF POUND FORCE POUND (INCH (TORQUE) LB IN. POUND PER SQUARE PSI INCH, GUAGE POWER METAL P/M POWER METAL P/M POWER ANALYZER PAM. POWERWIZARD PW POWERWIZARD PW POWER ANALYZER PAM. POWER COMPENSATOR PCOMP POWER CONTROL INPUT PCI POWER CONTROL PCO OUTPUT	=				
PLT HS) PILOT OPERATED PINK (FORMERLY P) PINN PINN PINN PINN PINN PINN PINN PI	PILOT HOUSE	PLT HS	POTENTIAL		PT
PLT HS) PILOT OPERATED PINK (FORMERLY P) PINN PINN PINN PINN PINN PINN PINN PI	(FORMERLY PH OR		TRANSFORMER		
PILOT OPÉRATED PINK (FORMERLY P) PINK (FORMERLY P) PINION PIN. PIPE PIPE PIPE PIPE PIPE PIPE PISTON PISTON LINK PISTON SLIPPER PISTON SLIPPER PICH POWDRER PICH POWDRER PISTON SLIPPER PISTON PS PS PITCH LINE RUN-OUT PLACES PL PL POWDR PLRO PINCH POWDR PS POWDR PINCH POWDR POW	PLT HS)		POTENTIOMETER		POT.
PINK (FORMERLY P) PINION PIN. PIPE PIPE PIPE PIPE PIPE PIPE PIPE PIP		PLT OPR	POUND	•	LB
PINION PIN. PIPE PP PP POUND FORCE LBF POUND FORCE LB IN. POUND FORCE LB IN. POUND PER SQUARE PSI INCH POUND PER SQUARE PSI INCH, GUAGE PISTON SLIPPER PS POWDER METAL P/M PITCH DIAMETER PD POWER METAL P/M PITCH DIAMETER PD POWER PWR PITCH LINE RUN-OUT PLRO PITCH LINE RUN-OUT PLRO PITCH LINE RUN-OUT PVT POWERWIZARD PW PLACES PL POWER ANALYZER PAM. PLANETARY (FORMERLY PLNTY POWER CONTROL INPUT PCI PLANNING (FORMERLY PLAN) PLANNING (FORMERLY PLAN) PLANT PL					
PIPE PP PP PUND INCH (TORQUE) LB IN. PIPELAYER PL PSTN PSTN INCH PISTON LINK PL POUND PER SQUARE PSI PISTON RADIAL PR POUND PER SQUARE PSIG PISTON SLIPPER PS POWDER METAL P/M PITCH POWER POWDER METAL P/M PITCH POWER PWR PITCH DIAMETER PD POWERED ACCESS PAS PITCH LINE RUN-OUT PLRO PIVOT PVT POWERWIZARD PW PLACES PL PLANETARY (FORMERLY PLNTY PLANET.) PLANET.) PLANET.) PLANNING (FORMERLY PNG POWER COMPENSATOR PCOMP PLAN.) PLANT PD POWER CONTROL INPUT POWER CONTROL INPUT POWER CONTROL OUTPUT				•	
PIPELAYER PISTON PISTON PISTON LINK PISTON RADIAL PISTON SLIPPER PITCH P	_			*	
PISTON PSTN PISTON LINK PISTON LINK PISTON RADIAL PR PISTON SLIPPER PISTON SLIPPER PITCH POWER CORS PAS PAS PAS PAS PAS PAS PAS PAS PAS PA				•	
PISTON LINK PISTON RADIAL PR PISTON SLIPPER PISTON SLIPPER PITCH PITCH PITCH PITCH PITCH PITCH PITCH PITCH DIAMETER PD POWER PITCH LINE RUN-OUT PIVOT PIVOT PLACES PLANETARY (FORMERLY PLANET.) PLANNING (FORMERLY PLANT PLANT PLANT PLANT PLANT PLANT PLANT PLANT POUND PER SQUARE POWDER INCH, GUAGE POWDER METAL POWER POWER AMETAL POWER POWER POWER POWER AMALYZER POWER COMPENSATOR POWER CONTROL INPUT POWER CONTROL POWER POWER POWER CONTROL POWER POWER POWER CONTROL POWER POWER POWER CONTROL POWER					r31
PISTON RADIAL PR PISTON SLIPPER PS PITCH PITCH PITCH PITCH P P POWER PITCH DIAMETER PD POWERED ACCESS PAS PITCH LINE RUN-OUT PLRO STAIRWAY PIVOT PLACES PL PL PLANETARY (FORMERLY PLANET.) PLANNING (FORMERLY PLANT PLANT PISTON SLIPPER POWDER METAL POWER POWER POWER ANALYZER POWER ANALYZER POWER COMPENSATOR POWER CONTROL INPUT POWER CONTROL POWER CONTR			_		
PISTON SLIPPER PS PITCH PP PITCH PP PITCH DIAMETER PD PITCH LINE RUN-OUT PLRO PIVOT PVT PLACES PL PLANETARY (FORMERLY PLANET.) PLANNING (FORMERLY PLAN.) PLANT					PSIG
PITCH P PITCH DIAMETER PD POWERED ACCESS PAS PITCH LINE RUN-OUT PLRO PIVOT PVT POWERWIZARD PW PLACES PL POWER ANALYZER PAM. PLANETARY (FORMERLY PLANTY POWER COMPENSATOR PCOMP PLANNING (FORMERLY PNG POWER CONTROL INPUT PCI PLAN.) PLANT			7		
PITCH DIAMETER PD PLRO PITCH LINE RUN-OUT PLRO PIVOT PVT POWERED ACCESS PAS STAIRWAY POWERWIZARD PW POWER ANALYZER PAM. PLANETARY (FORMERLY PLNTY MODULE PLANNING (FORMERLY PNG POWER COMPENSATOR PCOMP PLANNING (FORMERLY PLANC) PLANT PD POWER CONTROL PCO OUTPUT	PISTON SLIPPER	PS	POWDER METAL		P/M
PITCH DIAMETER PD PLRO PITCH LINE RUN-OUT PLRO PIVOT PVT POWERED ACCESS PAS STAIRWAY POWERWIZARD PW POWER ANALYZER PAM. PLANETARY (FORMERLY PLNTY MODULE PLANNING (FORMERLY PNG POWER COMPENSATOR PCOMP PLANNING (FORMERLY PLANC) PLANT PD POWER CONTROL PCO OUTPUT	PITCH	Р	POWER		PWR
PITCH LINE RUN-OUT PIVOT PIVOT PLACES PL PLANETARY (FORMERLY PLANET.) PLANNING (FORMERLY PLANNING (FORMERLY PLAN.) PLANT PLANT PL		PD	POWERED ACCESS		PAS
PIVOT PVT PLACES PL PLANETARY (FORMERLY PLNTY PLANET.) PLANNING (FORMERLY PNG PLAN.) PLANT PL P					-
PLACES PLANETARY (FORMERLY PLANET.) PLANNING (FORMERLY PLAN.) PLANT POWER ANALYZER PAM. MODULE POWER COMPENSATOR POWER CONTROL INPUT POWER CONTROL OUTPUT		_			PW
PLANETARY (FORMERLY PLNTY MODULE POWER COMPENSATOR PCOMP PLANNING (FORMERLY PNG PLAN.) PLANT PL PL OUTPUT  MODULE POWER COMPENSATOR PCOMP POWER CONTROL INPUT PCI POWER CONTROL PCO OUTPUT					
PLANET.) PLANNING (FORMERLY + PNG PLAN.) PLANT + PL  POWER COMPENSATOR PCOMP POWER CONTROL INPUT PCI POWER CONTROL PCO OUTPUT					ı Alvı.
PLANNING (FORMERLY PNG PLAN.)     PNG POWER CONTROL INPUT PCI POWER CONTROL PCO OUTPUT       PLANT PL     OUTPUT	`	PLINTY			DOOMB
PLAN.) PLANT		<b>-</b> 116			
PLANT → PL OUTPUT		♦ PNG			
					PCO
THE INFORMATION HEREOLUS THE PROPERTY OF CATERDAIL AS THE CONTRACT OF CATERDAIL AS THE CATERDAIL AS	PLANT	◆ PL	OUTPUT		
		IEDEON IO THE SECRET	ADULT NO THIS CONTROL TO CONTROL		

THE INFORMATION HEREON IS THE PROPERTY OF CATERPILLAR INC. AND/OR ITS SUBSIDIARIES. WITHOUT WRITTEN PERMISSION, ANY COPYING, TRANSMITTAL TO OTHERS, AND ANY USE EXCEPT THAT FOR WHICH IT IS LOANED, IS PROHIBITED.			
	DATE	CHG NO	NUMBER
INTERPRETATION AND TOLERANCES - DRAWING	24 MAY 2018	57	1E0011





POWER END	PE	PROCUREMENT
POWER MODE	PWR MD	(FORMERLY PRC
POWER SHIFT	PS	PRODUCT ACCEPTA
POWER SPECTRAL	PSD	TEST
DENSITY		PRODUCT ACTIVITY
POWER STEERING	PS	NOTICE
POWER SUPPLY	PSPLY	PRODUCT BREAKD
POWER SYSTEM	P/S	(FORMERLY PROD
POWER TAKE OFF	PTO	BKDN)
POWER TRAIN	PT	PRODUCT CONTRO
POWER TRAIN CONTROL	PCP	PRODUCT DISTRIBL
PROCESSOR	. 5.	CENTER
POWER TRAIN OIL	PTO TEMP	PRODUCT EVALUAT
TEMPERATURE	1 10 121111	TEST
POWER TURBINE	PTURB	PRODUCT
(FORMERLY PWRTURB)	TTORB	IDENTIFICATION
POWERED	PWRD	NUMBER
PRECIPITATION	PRECP	PRODUCT LINK
(FORMERLY PPT)	FREUP	PRODUCT LINK PRODUCT MARKING
PRECLEANER	PRECLNR	SYSTEM
PRECLEANER PRECOMBUSTION	PC	PRODUCT PROCES
CHAMBER	го	RELOCATION
PRECOOLER	PCLR	PRODUCTION
PRE-DELIVERY	POLK	PRODUCTION PART
INSPECTION	וטיץ	APPROVAL PROC
PRELUBE	PRLUB	PROGRAM
PREMIUM	PREM PREP.	PROGRAMMABLE
PREPARATION	PREPROD	INTERFACE
		CONTROLLER
PRESCREENER	PRESCRN	PROGRAMMABLE L
PRESERVATION	PSVTN	CONTROLLER
PRESS IN PLACE	PIP	PROGRAMMABLE
PRESSURE	PRESS.	MONITORING SYS
PRESSURE ANGLE	PA	PROGRAM NOT
PRESSURE EQUIPMENT	PED	PROJECTED TOLER
DIRECTIVE		ZONE
PRESSURE SENSITIVE	PS	PROPEL
PRESSURE SENSITIVE	PSA	PROPELLER
ADHESIVE		PROPERTY
PRESSURIZER	PRSRZ	PROPORTION
PREVENTATIVE	PVNT	PROPORTION SOLE
PRIMARY	PRIM.	PROPULSION
PRIMER	PRMR	PROTECTION
PRIMING	PRM	PROTECTIVE
PRIORITY	PRI	PROVE DESIGN
PROCEDURE	PROC	
PROCEDURE	PQR	PUBLICATION
QUALIFICATION		PULLER
RECORD		PULLEY
PROCESS	PRCS	PULLINGSLEDGE
PROCESS CHANGE	PCN	PULSES PER SECO
NOTICE	-	PULVERIZER
PROCESS CONTROL	PCE	PUMP
ENGINEER		PUMP ELECTRONIC
PROCESS VALIDATION	PV	UNIT
PROCESSING	PROC	PUMP TO CYLINDER
· · · ·		

PROCUREMENT (FORMERLY PROMNT) PRODUCT ACCEPTANCE TEST PRODUCT ACTIVITY NOTICE PRODUCT BREAKDOWN (FORMERLY PROD BKDN) PRODUCT CONTROL PRODUCT DISTRIBUTION CENTER PRODUCT EVALUATION TEST PRODUCT IDENTIFICATION NUMBER PRODUCT MARKING SYSTEM PRODUCT PROCESS RELOCATION PRODUCTION PROD PRODUCTION PROD PRODUCTION PROD PRODUCTION PROD PRODUCTION PROD PRODUCTION PROD PRODUCTION PROPAP APPROVAL PROCESS PROGRAM PROGRAMMABLE INTERFACE CONTROLLER PROGRAMMABLE PIC INTERFACE CONTROLLER PROGRAMMABLE PROP PROPELLER PROPELL MONITORING SYSTEM PROPELLER PROPELLER PROPELLER PROPELLER PROPPROPORTION PROPORTION PROPON PROPONTION PROPON PROPONTION PROPON PROPONTION PROPON PROPON PROPON PROPON PROPON PROPON PROPON PROTECTIVE PROVE DESIGN  PUBLICATION PULLER PULLEY PULLINGSLEDGE PULSES PER SECOND PULVERIZER PUMP PUMP ELECTRONIC TANK UNIT PUMP TO CYLINDER  PC  PC  PTT  PC  PC  PAT.  PAT.  PAT.  PAT.  PAT.  PAT.  PAN.  PBKDN  PBKDN  PBKDN  PBKDN  PPC  PROP PROP PROP PROP PROP PROP PRO			
PRODUCT ACCEPTANCÉ TEST PRODUCT ACTIVITY NOTICE PRODUCT BREAKDOWN (FORMERLY PROD BKDN) PRODUCT CONTROL PRODUCT DISTRIBUTION CENTER PRODUCT EVALUATION TEST PRODUCT IDENTIFICATION NUMBER PRODUCT LINK PRODUCT MARKING SYSTEM PRODUCT PROCESS RELOCATION PRODUCTION PART APPROVAL PROCESS PROGRAM PROGRAMMABLE INTERFACE CONTROLLER PROGRAMMABLE LOGIC CONTROLLER PROGRAMMABLE MONITORING SYSTEM PROGRAMMABLE MONITORING SYSTEM PROPEL PROPEL PROPEL PROPEL PROPEL PROPEL PROPORTION PRODPORTION PROPORTION PROTECTIVE PROV PROP PUBLICATION PULLER PULLEY PULLUR PULLER PULLEY PULLV PURP PUMP PUMP PUMP PUMP PUMP PUMP PUMP			PRCMT
PRODUCT ACTIVITY NOTICE PRODUCT BREAKDOWN (FORMERLY PROD BKDN) PRODUCT CONTROL PRODUCT DISTRIBUTION CENTER PRODUCT EVALUATION TEST PRODUCT IDENTIFICATION NUMBER PRODUCT HARKING SYSTEM PRODUCT PROCESS RELOCATION PRODUCTION PART APPROVAL PROCESS PROGRAM PROGRAMMABLE INTERFACE CONTROLLER PROGRAMMABLE INTERFACE CONTROLLER PROGRAMMABLE INTERFACE CONTROLLER PROGRAMMABLE PROPELLER PROPELLER PROPELLER PROPELLER PROPELLER PROPORTION P	(FORMERLY PRCMNT) PRODUCT ACCEPTANCE		PAT.
NOTICE PRODUCT BREAKDOWN (FORMERLY PROD BKDN) PRODUCT CONTROL PRODUCT DISTRIBUTION CENTER PRODUCT EVALUATION TEST PRODUCT IDENTIFICATION NUMBER PRODUCT MARKING SYSTEM PRODUCT PROCESS RELOCATION PRODUCTION PROGRAMMABLE INTERFACE CONTROLLER PROGRAMMABLE MONITORING SYSTEM PROGRAMMABLE MONITORING SYSTEM PROGRAM PROFEN PROPELLER PROPELLER PROPELLER PROPORTION PROPORTY PROPORTION PROPORTION PROPORTION PROPORTION PROPORTION PROPORTY	_	•	P.A.N.
(FORMERLY PROD BKDN)  PRODUCT CONTROL PRODUCT DISTRIBUTION CENTER PRODUCT EVALUATION TEST PRODUCT IDENTIFICATION NUMBER PRODUCT LINK PRODUCT MARKING SYSTEM PRODUCT PROCESS RELOCATION PRODUCTION PART APPROVAL PROCESS PROGRAM PROGRAMMABLE INTERFACE CONTROLLER PROGRAMMABLE MONITORING SYSTEM PROPEL PROPEL PROPEL PROPEL PROPEL PROPERTY PROPORTION PRODUCTION PRODECTED TOLERANCE ZONE PROPORTION PROTECTIVE PROVE DESIGN  PUBLICATION PUBLICATION PUBN PLIR PULLEY PULLINGSLEDGE PULSES PER SECOND PULVERIZER PUMP PUMP PUMP ELECTRONIC TANK UNIT	NOTICE		
PRODUCT CONTROL PRODUCT DISTRIBUTION CENTER PRODUCT EVALUATION TEST PRODUCT IDENTIFICATION NUMBER PRODUCT LINK PRODUCT MARKING SYSTEM PRODUCT PROCESS RELOCATION PRODUCTION PRODUCTION PRODUCTION PRODUCTION PROPAPA APPROVAL PROCESS PROGRAM PROGRAMMABLE INTERFACE CONTROLLER PROGRAMMABLE MONITORING SYSTEM PROPELLER PROPEL PROPELL PROPELL PROPELL PROPORTION PROTECTIVE PROVE DESIGN  PUBLICATION PULLER PULL PULLINGSLEDGE PULSES PER SECOND PPS PULV PULV PUMP PMP PUMP ELECTRONIC TANK UNIT	(FORMERLY PROD	•	PBKDN
PRODUCT DISTRIBUTION CENTER PRODUCT EVALUATION TEST PRODUCT IDENTIFICATION NUMBER PRODUCT LINK PRODUCT MARKING SYSTEM PRODUCT PROCESS PPR RELOCATION PRODUCTION PRODUCTION PRODUCTION PROD PRODUCTION PROD PRODUCTION PROGRAMMABLE INTERFACE CONTROLLER PROGRAMMABLE LOGIC CONTROLLER PROGRAMMABLE MONITORING SYSTEM PROJECTED TOLERANCE ZONE PROPEL PROPEL PROPEL PROPORTION PROTECTIVE PROYE PROYE DESIGN  PUBLICATION PROTE PUBLICATION PROTE PUBLICATION PULLER PULLEY PULL PULL PULL PULL PULL PULL PULL PUL		•	PC
PRODUCT EVALUATION TEST PRODUCT IDENTIFICATION NUMBER PRODUCT LINK PRODUCT LINK PRODUCT MARKING SYSTEM PRODUCT PROCESS RELOCATION PRODUCTION PRODUCTION PRODUCTION PROPAPPROVAL PROCESS PROGRAM PROGRAMMABLE INTERFACE CONTROLLER PROGRAMMABLE LOGIC CONTROLLER PROGRAMMABLE MONITORING SYSTEM PROPEL PROPEL PROPEL PROPEL PROPEL PROPORTION PROTECTIVE PROVE DESIGN PD ULUBLICATION PULLER PULL PULL PULL PULL PULL PULL PULL PUL	PRODUCT DISTRIBUTION	•	
PRODUCT IDENTIFICATION NUMBER PRODUCT LINK PRODUCT LINK PRODUCT MARKING SYSTEM PRODUCT PROCESS PRODUCT PROCESS RELOCATION PRODUCTION PRODUCTION PROD PRODUCTION PROD PROPOVAL PROCESS PROGRAM PROGRAMMABLE INTERFACE CONTROLLER PROGRAMMABLE LOGIC CONTROLLER PROGRAMMABLE PROGRAMMABLE PROGRAMMABLE PROGRAMMABLE PROGRAMMABLE PROPEL PROPEL PROPEL PROPEL PROPEL PROPEL PROPEL PROPORTION PROPORTION PROPORTION PROPORTION PROTECTIVE PROVE DESIGN PUBLICATION PULLER PULLEY PULLINGSLEDGE PULSES PER SECOND PULVERIZER PUMP PUMP ELECTRONIC TANK UNIT	PRODUCT EVALUATION		PET.
NUMBER PRODUCT LINK PRODUCT MARKING SYSTEM SYS PRODUCT PROCESS RELOCATION PRODUCTION PRODUCTION PRODUCTION PART APPROVAL PROCESS PROGRAM PROGRAMMABLE INTERFACE CONTROLLER PROGRAMMABLE LOGIC CONTROLLER PROGRAMMABLE MONITORING SYSTEM PROJECTED TOLERANCE ZONE PROPEL PROPEL PROPELLER PROPORTION PROPORTION PROPORTION PROPORTION PROPORTION PROPORTION PROPORTION PROTECTIVE PROYE PROYE PROYE PROYE PROYE PROYE PROYE PROYE PROYE PROTE PROT PROTE PROT PROT PROT PROT PROT PROT PROT PROT	_		PIN
PRODUCT LINK PRODUCT MARKING SYSTEM PRODUCT PROCESS RELOCATION PRODUCTION PRODUCTION PRODUCTION PROD PROPORTION PROGRAMMABLE INTERFACE CONTROLLER PROGRAMMABLE MONITORING SYSTEM PROGRAM PROGRAM PROGRAMMABLE MONITORING SYSTEM PROGRAM NOT PROPEL PROPEL PROPEL PROPEL PROPEL PROPORTION PROPORTION PROPORTION PROPORTION PROTECTIVE PROVE DESIGN PULLER PULLER PROTECTIVE PROVE DESIGN PULLER PULLER PULLER PULLER PROT PROTECTIVE PROTE PROT PROTECTIVE PROT PROTECTIVE PROT PROTECTIVE PROT PROTECTIVE PROT PROTECTIVE PROT PROTECTIVE PROT PROT PROTECTIVE PROT PROT PROT PROT PROT PROT PROT PROT	IDENTIFICATION		
SYSTEM PRODUCT PROCESS RELOCATION PRODUCTION PRODUCTION PART APPROVAL PROCESS PROGRAM PROGRAMMABLE INTERFACE CONTROLLER PROGRAMMABLE LOGIC CONTROLLER PROGRAMMABLE MONITORING SYSTEM PROJECTED TOLERANCE ZONE PROPEL PROPEL PROPELL PROPORTION PROPORTION PROPORTION PROPORTION PROPORTION PROPORTION PROTECTION PRO	_		PL
PRODUCT PROCESS RELOCATION PRODUCTION PRODUCTION PART APPROVAL PROCESS PROGRAM PROGRAMMABLE INTERFACE CONTROLLER PROGRAMMABLE LOGIC CONTROLLER PROGRAMMABLE MONITORING SYSTEM PROPEL PROPEL PROPEL PROPEL PROPEL PROPEL PROPORTION PROPORTION PROPORTION PROPORTION PROTECTION PROT			-
PRODUCTION PROD PRODUCTION PART APPROVAL PROCESS PROGRAM PROGRAMMABLE INTERFACE CONTROLLER PROGRAMMABLE LOGIC CONTROLLER PROGRAMMABLE PMS MONITORING SYSTEM PROGRAM NOT PRGM PROJECTED TOLERANCE ZONE PROPEL PROPEL PROPELLER PROPORTION PROPO PROPORTION PROPN PROPORTION PROPN PROPULSION PROTECTION PROTECTIVE PROVE DESIGN PULLER	PRODUCT PROCESS		
PRODUCTION PART APPROVAL PROCESS PROGRAM PROGRAMMABLE INTERFACE CONTROLLER PROGRAMMABLE LOGIC CONTROLLER PROGRAMMABLE MONITORING SYSTEM PROGRAM NOT PROJECTED TOLERANCE ZONE PROPEL PROPEL PROPELLER PROPORTION PROPORTION PROPORTION PROPORTION PROPORTION PROPULSION PROTECTION PROPIEM PROPIEM PROPIEM PROPIEM PROPEM PROPIEM PROPIEM PROPIEM PROPIEM PROPIEM PROPIEM PROPIEM PROPORTION PROPIEM PR			DDOD
PROGRAM PROGRAMMABLE INTERFACE CONTROLLER PROGRAMMABLE LOGIC CONTROLLER PROGRAMMABLE PROGRAMMABLE MONITORING SYSTEM PROGRAM NOT PROJECTED TOLERANCE ZONE PROPEL PROPELLER PROPELLER PROPOPTION PROPORTION PROPORTION PROPORTION PROTECTION PROTECTION PROTECTION PROTECTIVE PROVE DESIGN PULLER PULLER PULLER PULLER PULLEY PULLINGSLEDGE PULSES PER SECOND PMP PUMP ELECTRONIC TANK UNIT			-
PROGRAMMABLE INTERFACE CONTROLLER PROGRAMMABLE LOGIC CONTROLLER PROGRAMMABLE PROGRAMMABLE MONITORING SYSTEM PROGRAM NOT PROJECTED TOLERANCE ZONE PROPEL PROPEL PROPELLER PROPEL PROPORTION PROPORTION PROPORTION PROPN PROPULSION PROTECTION PROTECTION PROTECTIVE PROVE DESIGN PULLER PULLER PULLER PULLEY PULLINGSLEDGE PULSES PER SECOND PMP PUMP ELECTRONIC TANK UNIT			
INTERFACE CONTROLLER PROGRAMMABLE LOGIC CONTROLLER PROGRAMMABLE PROGRAMMABLE MONITORING SYSTEM PROGRAM NOT PROJECTED TOLERANCE ZONE PROPEL PROPEL PROPELLER PROPEL PROPORTION PROPORTION PROPORTION PROPN PROPULSION PROTECTION PROTECTION PROTECTION PROTECTIVE PROVE DESIGN PULLER PULLER PULLEY PULLINGSLEDGE PULSES PER SECOND PUMP PUMP ELECTRONIC TANK UNIT			-
PROGRAMMABLE LOGIC CONTROLLER PROGRAMMABLE PROGRAMMABLE MONITORING SYSTEM PROGRAM NOT PROJECTED TOLERANCE ZONE PROPEL PROPEL PROPEL PROPELLER PROP PROPORTION PROPORTION PROPORTION PROPN PROPULSION PROTECTION PROTECTIVE PROVE DESIGN PULLER PULLER PULLER PULLEY PULLINGSLEDGE PULVERIZER PUMP PUMP ELECTRONIC TANK PMS  PMS  PMS  PMS  PMS  PMS  PMS  PMS			110
CONTROLLER PROGRAMMABLE MONITORING SYSTEM PROGRAM NOT PROJECTED TOLERANCE ZONE PROPEL PROPEL PROPELLER PROPERTY PROPORTION PROPORTION PROPN PROPORTION PROPN PROTECTION PROTECTION PROTECTIVE PROVE DESIGN PULLER PULLER PULLER PULLEY PULLINGSLEDGE PULSES PER SECOND PMP PUMP ELECTRONIC TANK PMS PMS PMS PMS PMS PROP PROP PROP PROP PROP PROP PROP PRO			DI O
PROGRAMMABLE MONITORING SYSTEM PROGRAM NOT PROJECTED TOLERANCE ZONE PROPEL PROPEL PROPELLER PROPERTY PROPORTION PROPORTION PROPN PROPORTION PROPN PROTECTION PROTECTION PROTECTIVE PROVE DESIGN PULLER PULLER PULLER PULLEY PULLINGSLEDGE PULVERIZER PUMP PUMP ELECTRONIC TANK PROGRAMMABLE PROM PROM PROM PROP PROP PROP PROP PROP			PLC
PROGRAM NOT PROJECTED TOLERANCE ZONE PROPEL PROPEL PROPELLER PROP PROPENTY PROPORTION PROPORTION PROPN PROPORTION PROPN PROTECTION PROTECTION PROTECTIVE PROVE DESIGN PULLER PULLER PULLER PULLEY PULLINGSLEDGE PULSES PER SECOND PUMP PUMP ELECTRONIC TANK PTZ PROP PTZ PROP PROP PROP PROP PROP PROP PROP PRO	PROGRAMMABLE		PMS
PROJECTED TOLERANCE ZONE PROPEL PROPEL PROPELLER PROP PROPERTY PROP PROPORTION PROPORTION PROPN PROPORTION PROPN SOL PROPULSION PROTECTION PROTECTION PROTECTIVE PROVE DESIGN PULLER PULLER PULLER PULLEY PULLINGSLEDGE PULSES PER SECOND PUMP PUMP ELECTRONIC TANK UNIT PROP PROP PROP PROP PROP PROP PROP PRO			PRGM
PROPEL PROPELLER PROPELLER PROPERTY PROPERTY PROPORTION PROPORTION PROPN PROPONSOL PROPULSION PROTECTION PROTECTION PROTECTIVE PROVE DESIGN PD (OBSOLETE) PUBLICATION PULLER PULLEY PULLEY PULLINGSLEDGE PULSES PER SECOND PULVERIZER PUMP PUMP ELECTRONIC TANK UNIT			_
PROPELLER PROPERTY PROPORTION PROPORTION PROPORTION SOLENOID PROPULSION PROTECTION PROTECTIVE PROVE DESIGN PUBLICATION PULLER PULLEY PULLINGSLEDGE PULSES PER SECOND PUMP PUMP ELECTRONIC TANK PROP PROP PROP PROP PROP PROP PROP PRO	_		DDOD
PROPERTY PROPORTION PROPORTION PROPORTION SOLENOID PROPULSION PROTECTION PROTECTIVE PROVE DESIGN PUBLICATION PULLER PULLER PULLEY PULLINGSLEDGE PULSES PER SECOND PUMP PUMP ELECTRONIC TANK UNIT PROP PROPN	=		-
PROPORTION SOLENOID PROPULSION PROTECTION PROTECTIVE PROVE DESIGN  PUBLICATION PULLER PULLEY PULLINGSLEDGE PULSES PER SECOND PULVERIZER PUMP PUMP ELECTRONIC TANK UNIT  PROPN SOL PROPN SO			-
PROPULSION PROTECTION PROTECTIVE PROVE DESIGN  PUBLICATION PULLER PULLEY PULLINGSLEDGE PULSES PER SECOND PULVERIZER PUMP PUMP ELECTRONIC TANK PROTN PROTN PROTN PROTN PROTN PROTN PROT PROT PROT PROT PROT PROT PROT PROT			-
PROTECTION PROTECTIVE PROVE DESIGN  PUBLICATION PULLER PULLEY PULLINGSLEDGE PULSES PER SECOND PULVERIZER PUMP PUMP ELECTRONIC TANK PROT PROT PROT PROT PROT PROT PROT PROT			
PROTECTIVE PROVE DESIGN  PUBLICATION PULLER PULLEY PULLINGSLEDGE PULSES PER SECOND PULVERIZER PUMP PUMP ELECTRONIC TANK PPD (OBSOLETE) PUBN PUBN PUBN PUBN PUBN PUBN PUBN PUBN			
PROVE DESIGN  PUBLICATION  PULLER  PULLEY  PULLINGSLEDGE  PULSES PER SECOND  PULVERIZER  PUMP  PUMP ELECTRONIC TANK  (OBSOLETE)  PUBN  PUBN  PUBN  PLR  PUL  PUL  PUL  PUL  PUL  PUL  PUL			
PUBLICATION PULLER PULLEY PULLINGSLEDGE PULSES PER SECOND PULVERIZER PUMP PUMP ELECTRONIC TANK PUBN PLR PUBN PUL PUL PUL PUL PUBN PUL PUL PUL PUL PUS PUL PUS PUL PUS			PD
PULLEY PUL PULLINGSLEDGE PLGSLDG PULSES PER SECOND PPS PULVERIZER PULV PUMP PMP PUMP ELECTRONIC TANK PETU UNIT		•	PUBN
PULLINGSLEDGE PLGSLDG PULSES PER SECOND PPS PULVERIZER PULV PUMP PMP PUMP ELECTRONIC TANK PETU UNIT	_		
PULSES PER SECOND PPS PULVERIZER PULV PUMP PMP PUMP ELECTRONIC TANK PETU UNIT			-
PULVERIZER PULV PUMP PMP PUMP ELECTRONIC TANK PETU UNIT			
PUMP ELECTRONIC TANK PETU UNIT			_
UNIT			
			PETU
	_		PC

THE INFORMATION HEREON IS THE PROPERTY OF CATERPILLAR INC. AND/OR ITS SUBSIDIARIES. WITHOUT WRITTEN PERMISSION, ANY COPYING, TRANSMITTAL TO OTHERS, AND ANY USE EXCEPT THAT FOR WHICH IT IS LOANED, IS PROHIBITED.			
	DATE	CHG NO	NUMBER
INTERPRETATION AND TOLERANCES - DRAWING	24 MAY 2018	57	1E0011





PURCHASE (FORMERLY PUR)		PURCH
PURCHASED FINISHED PURGE PURIFIED PURPLE PUSH BUTTON PUSH ROD PUSH/PULL	•	PF PRG PURFD PU PB PRD PP
QUALIFIED QUALITY QUALITY CONTROL QUANTITY QUARRY & CONSTRUCTION TRUCK	u	QUALD QUAL QC QTY QCT
QUART QUICK COUPLER QUICK DISCONNECT QUICK DROP (FORMERLY QDROP)	•	QT QCPLR QDISC QD
QUICK DUMP QUICK RELEASE QUICK SHIFT	R	QDUMP QREL QS
RADAR RADIAL (FORMERLY R) RADIATOR (FORMERLY RAD)	K	RDR RDL RDTR
RADIÓ RADIO FREQUENCY		RAD RFID
IDENTIFICATION RADIO GUIDE RADIUS RAIN VISOR RAISE RANGE RATING READY TO SEND REAL TIME CLOCK REAR REAR AXLE (FORMERLY RAX)		RG R RAIN V RS RNG RTG RTS RTC RR RRAX
REAR WHEEL SPEED SENSOR		RWSS
REASON REBUILD RECEIVE RECEIVER RECEIVING RECEPTACLE (FORMERLY RECP)	•	REAS RBD RCV RCVR RCVG RCPT
RECIRCULATION RECIRCULATE RECLAIMER RECOIL (FORMERLY REC)		RECIRC RECIRC RCLM RCL

RECORD	RCD
(FORMERLY REC)	
RECREATIONAL	REC
RECREATIONAL VEHICLE	RV
RECTANGULAR	RECT
RECTIFIER	RECT
RED (FORMERLY R)	RD
REDRAWN AND REVISED ◆	RR
(FORMERLY RED REVD)	
REDUCER	RDCR
REDUCING	REDC
REDUCTANT	RDCT
REDUCTION (FORMERLY	RDCN
RED.)	DDD
REDUNDANT	RPR
PROPORSIONAL	
ROLLER	DEE
REFERENCE REFLECTOR	REF REFL
REFRIGERANT	RFGT
REFRIGERATOR	REFRIG
REGARDLESS OF	RFS
FEATURE SIZE	IXI O
REGARDLESS OF	RMB
MATERIAL BOUNDARY	TAME
REGENERATION	REGEN
REGENERATION SYSTEM	RS
(FORMERLY	
CATERPILLAR	
REGENERATION	
SYSTEM (CRS))	
REGIONAL	REG
REGISTER (FORMERLY	RGTR
REG)	
REGULATING	RGLT
REGULATOR	RGLTR
REINFORCE	REINF
REJECTED ◆	REJ
RELAY	RLY
RELEASE	REL
RELIEF	RLF
RELIEF VALVE	RV
RELIEVED TREAD IDLER	RTI
RELOCATE +	RELO
REMANUFACTURED	REMFD
REMOTE (FORMERLY	RMT
RMTE) REMOTE AFTERCOOLED	REMAC
	RATAAC
REMOTE AIR-TO-AIR AFTERCOOLER	NATAAU
REMOTE CONTROL	RC
REMOTE CONTROL REMOTE INPUT/OUTPUT	RIOU
UNIT	NIOU
REMOTE PANEL	RP
REMOTE TERMINAL UNIT	RTU
REMOVAL +	RMVL
<u> </u>	

THE INFORMATION HEREON IS THE PROPERTY OF CATERPILLAR INC. AND/OR ITS SUBSIDIARIES. WITHOUT WRITTEN PERMISSION, ANY COPYING, TRANSMITTAL TO OTHERS, AND ANY USE EXCEPT THAT FOR WHICH IT IS LOANED, IS PROHIBITED.			
	DATE	CHG NO	NUMBER
INTERPRETATION AND TOLERANCES - DRAWING	24 MAY 2018	57	1E0011





REMOVE (FORMERLY	RMV	RIGHT REAR	RR
REM)		RIPPER	RIP.
REMOVE & REPLACE	♦ R&R	RISER	R
REMOVED	REMD	ROADING	ROAD
REPAIR RETURN	RR	ROCKER	RKR
REPLACED	♦ REPL	ROCKWELL C HARDNESS	HRC
REPLACEMENT	REPLT	ROCKWELL HARDNESS	RKW
REPLENISH	♦ RPLN	ROD END	RE
REPLENISHING	RPLNG	ROLLER	RLR
(FORMERLY REPLN)	KFLING	ROLLER VANE	RV
	· DEBDOD		
REPRODUCTION	♦ REPROD	ROLLOVER	RO
REQUEST	REQ	ROLLOVER PROTECTIVE	ROPS
REQUIRED	REQD	STRUCTURE	
REQUIREMENT	REQT	ROOF SUPPORT	RFS
(FORMERLY REQ)		ROOM TEMPERATURE	RTV
RESEARCH &	REDI	VULCANIZING	
ENGINEERING		ROOT MEAN SQUARE	RMS
DOCUMENT INQUIRY		ROTARY	RTRY
SYSTEM		(FORMERLY ROT.)	
RESERVOIR	RSVR	ROTATING	ROTG
RESISTOR	RES	ROTATION	ROT.
RESOLVER	RSLVR	ROTOCHAMBER	RTCHAMB
RESTRICTION	RSTRN	ROUGH	RGH
RESTRICTION OF	RoHS	ROUGHNESS AVERAGE	Ra
HAZARDOUS	1.61.16	ROUND (FORMERLY RD)	RND
SUBSTANCES		ROW	RW
RESTRICTOR	RSTR	ROYAL INSTITUTION OF	RINA
RETAINER	RTNR	NAVAL ARCHITECTS	IXIIVA
RETAINING	RTNG	RUBBER	RBR
RETARDER (FORMERLY	RTD	RUBBER COATED METAL	RCM
	KID		RLED
RETR)	DTD DV	RUGGEDIZED LIGHT-	KLED
RETARDER BRAKE	RTD BK	EMITTING DIODE	D.O.
RETARDING (FORMERLY	RTDG	RUSSIAN MARITIME	RS
RET)		REGISTER OF	
RETENTION	RETNN	SHIPPING	
RETRACT	RETR	RUST PREVENTATIVE	RP
RETROFIT	RETROF	S	
RETRIEVAL	RTRV	SAFETY	SAF
RETURN	RTN	SALES MODEL	SALES MOD
REVERSE	RVS	SAMPLING	SMPLG
(FORMERLY REV)		SAND BLAST	SDBL
REVERSE FLOW CHECK	RFC	SATELLITE	SATL
REVERSIBLE	RVSBL	SCANNING ELECTRON	SEM
REVERSING	RVSG	MICROSCOPE	
REVISED	♦ REVD	SCARIFIER	SCRFR
REVISION	REV	SCAVENGE	SCAV
REVOLUTION	REV	SCRAPER (FORMERLY	SRPR
REVOLUTIONS PER	RPM OR r/min	SCRP)	•
MINUTE		SCREED	SCRD
REVOLUTIONS PER	RPS OR r/s	SCREEN	SCRN
SECOND	11. 0 011.173	SCREW	SCW
RIDE CONTROL	RC	SEAWATER	SWAC
(FORMERLY RD)	NO	AFTERCOOLED	31170
	D	SEAL	SL
RIGHT	R		
RIGHT FRONT	RF	SEALED & LUBRICATED	S&L
RIGHT HAND	RH	SEAMLESS	SMLS
RIGHT HAND ROTATION	RHR	SEAT INDEX POINT	SIP
THE INFORMATION HE	REON IS THE PROPERTY OF CATER	PILLAR INC. AND/OR ITS SUBSIDIARIES. WITHOUT WRITTEN	

THE INFORMATION HEREON IS THE PROPERTY OF CATERPILLAR INC. AND/OR ITS SUBSIDIARIES. WITHOUT WRITTEN PERMISSION, ANY COPYING, TRANSMITTAL TO OTHERS, AND ANY USE EXCEPT THAT FOR WHICH IT IS LOANED, IS PROHIBITED.			
	DATE	CHG NO	NUMBER
INTERPRETATION AND TOLERANCES - DRAWING	24 MAY 2018	57	1E0011





			_			
SECOND-ANGULAR	*	" (SEC)		SHRINK		SHRK
SECONDARY		SEC		SHUTDOWN (FORMERLY		SHTDN
SECOND-TIME	*	s (SEC)		SHUT DN, SHT DN)		
SECTION		SECT.		SHUTDOWN UNIT		SU
SECURITY		SCTY		SHUTOFF		SO.
SELECTED STANDARD		SSP				
	•	337		SHUTTERSTAT		SHTRST
PART				SHUTTLE		SHTL
SELECTIVE CATALYTIC		SCR		SHROUD		SHRD
REDUCTION				SIDEBAR (FORMERLY SB)		SDB
SELECTOR		SEL		SIDE DUMP (FORMERLY		SDDUMP
SEMICONDUCTOR		SEMICOND		SIDUMP)		
SEMI-U		SU		SIDEROLLER		SDRLR
SENDER		SDR		SIDESHIFT (FORMERLY		SDSFT
SENSITIVITY		SENS		SISHF)		
SENSOR		SNSR		SIDE VIEW		SDVIEW
SEPARATE		SEP		SIGNAL		SIG
SEPARATE CIRCUIT		SCAC		SILICON CONTROL		SCR
		SCAC				SUK
AFTERCOOLED		050		RECTIFIERS		0.01
SEPARATOR		SEP		SIMILAR PARTS	<b>*</b>	SPI
SEPARATOR SEPTEMBER SEQUENCE		SEP		INFORMATION		
	<b>*</b>	SEQ		(OBSOLETE)		
SEQUENCE NUMBER		SQ/N		SIMILAR PARTS LIST	<b>*</b>	-· -
(FORMERLY S/N)						(OBSOLETE)
SERIAL		SER		SIMPLEX		SPLX
SERIAL NUMBER		S/N		SIMULTANEOUS DUAL		SDF
SERPENTINE		SERPTN		FREQUENCY		
SERVICE		SERV		SINGLE (FORMERLY S)		SGL
SERVICE ENGINEERING	•			SINGLE CYLINDER TEST		SCTE
SERVICE INFORMATION	•	SIN.		ENGINE		OOTL
NOTICE NOTICE		SIIV.				SFLG
		0)/0		SINGLE FLANGE		
SERVO		SVO		SINGLE GROUSER		SG
SETSCREW		SSCR		SINGLE SHANK		S/S
SHAFT (FORMERLY		SFT		SKELETON		SKEL
SHFT)				SLEEVE		SLV
SHAFT GENERATOR		SGM		SLEEVE METERING FUEL	<b>*</b>	SMFS
MOTOR				SYSTEM		
SHANDONG		SEM		SLIDING		SL
ENGINEERING				SLOPE (FORMERLY SL)		SLP
MACHINERY				SLOW MOVING VEHICLE		SMV
SHANK		SHK		SLOW SPEED OBJECT		SSOD
SHEAVE		SHV		DETECTION		555D
(FORMERLY SHVE)		OLIV		(REPLACED BY		
		SH				
SHEET				BY IODS)		C) /M
SHELF LIFE EXPIRATION		SLED		SLOW VESSEL MODE		SVM
DATE		a		SMALL TRACK TYPE		STTT
SHIELD		SHLD		TRACTORS		
SHIELDED METAL ARC		SMAW		SMART BOOM		SB
WELDING				(FORMERLY S)		
SHIFT		SHF		SNUBBER		SNBR
SHIPPING		SHPG		SOCIETY OF		SAE
SHOCK ABSORBER		SH ABS		AUTOMOTIVE		
(FORMERLY SHOCK		=		ENGINEERS		
ABS)				SOCKET		SKT
SHORT LIFT		SLFT		SOCKET WELD		SW
SHORT TURNING RADIUS		STR		SOFTWARE		SFWR
		SP				• · · · · ·
SHOT PEENING		_		SOLENOID		SOL
SHOVEL		SHVL	<u> </u>	SOLID STATE		SS
				AND/OR ITS SUBSIDIARIES. WITHOUT WRIT		

THE INFORMATION HEREON IS THE PROPERTY OF CATERPILLAR INC. AND/OR ITS SUBSIDIARIES. WITHOUT WRITTEN PERMISSION, ANY COPYING, TRANSMITTAL TO OTHERS, AND ANY USE EXCEPT THAT FOR WHICH IT IS LOANED, IS PROHIBITED.			
	DATE	CHG NO	NUMBER
INTERPRETATION AND TOLERANCES - DRAWING	24 MAY 2018	57	1E0011





SOLUTION	SOLN	STEERING WHEEL	SWC
SOUND	SND	CONTROL	
SOUND SUPPRESSION	SNDSUP	STICK	STK
SOUR GAS	SG	STICK LOWERING	SLCV
SOURCE OF SUPPLY •		CONTROL VALVE	0201
SPACING *	SPCG	STIFFENER	STIF
		_	
SPANNER	SPNR	STORAGE	STOR
SPARK IGNITED	SPIG	STRAIGHT	STR
(FORMERLY SI)		STRAIGHT THD O-RING	STOR
SPARK PLUG	SPPL	(FORMERLY STO)	
SPECIAL	SPL	STRAINER	STR
SPECIAL APPLICATION	SA	STRIKEOFF	STRKOFF
SPECIAL APPLICATION	SAEO	STRINGLINE	STRLN
ENGINE OIL	57.25	STRIPE	STP
SPECIFICATION	SPEC	STRIKEOFF STRINGLINE STRIPE STRUCTURAL	STRL
		STILD TENSIONED	STDTNSNR
SPECTATOR SPEED SPEED/TIMING	SPCTR	STUD TENSIONER SUBMERGED ENTRY	
SPEED	5P		SEN
SPEED/TIMING	SP/TMG	NOZZLE	
SPEEDOMETER SPHERICAL	SPDOM	SUBSIDIARY	SUB
SPHERICAL	SPHER	SUBSIDIARY CONTROL	SUB CONT
SPHERICAL RADIUS	SR	SUCTION	SUCT
SPLICE TABLE	ST	(FORMERLY SUC)	
SPLINE	SPLN	SÙBSTRUCTURE '	SBSTR
SPOTFACE	SF	SUMMATION	SUM.
SPHERICAL RADIUS SPLICE TABLE SPLINE SPOTFACE SPREADER	SPRDR	SUMMATION • SUPER EXTREME	SES
SPRING (FORMERLY	SPR	SERVICE	OLO
	SFR		CD
SPG)	ODDICT	SUPER RURAL	SR
SPROCKET	SPRKT		SUPV
SQUARE *	□ (SQ)	SUPPLEMENTAL	SUPPL
STABILIZED METAL RING	SMR	SUPPLIER (FORMERLY	SUP
STABILIZER (FORMERLY	STAB.	SUPL)	
STB)		SUPPLY	SPLY
STANDARD CUBIC FEET	SCFH	SUPPORT	SPRT
PER HOUR		(FORMERLY SPT) SUPPRESSION SUPPRESSOR SURFACE	
STATIC RANDOM-	SRAM	SUPPRESSION	SUPPR
ACCESS MEMORY	OT O TO	SUPPRESSOR	SUPPR
STAINLESS STEEL	SST	SURFACE	SURF.
STANDALONE	SA	SURFACE AREA TO	S/W
			3/11
STANDARD	STD	WEIGHT RATIO	0.711
STANDARD CUBIC	SCCM	SUSPECT PARAMETER	SPN
METERS PER MINUTE		NUMBER	
STARBOARD	STBD	SUSPENSION	SUSP
START	ST	SWEEPS	SWPS
STARTER	START	SWING	SWG
STARTER MOTOR	SMMS	SWINGING (FORMERLY	SWG
MAGNETIC SWITCH		SWING.)	
STARTING	STG	SWITCH	SW
STARTING STARTING ENGINE	STG ENG	SWITCHGEAR	SWGR
STATIONARY	STA	SWITCH TO BATTERY	STB
STATUR	STTR	SWIVEL	SWVL
STATUS	STAT	SYMBOL	SYM
STEEL	STL	(FORMERLY SYMB)	
STEER	STR	SYMMETRIC (FORMERLY	SYMM
(FORMERLY STER)		SYM)	
STEERING (FORMERLY	STRG	SYMMETRICAL	SYMM
STER)		(FORMERLY SYM)	
,		SYNCHRONIZE	SYNC

THE INFORMATION HEREON IS THE PROPERTY OF CATERPILLAR INC. AND/OR ITS SUBSIDIARIES. WITHOUT WRITTEN PERMISSION, ANY COPYING, TRANSMITTAL TO OTHERS, AND ANY USE EXCEPT THAT FOR WHICH IT IS LOANED, IS PROHIBITED.			
	DATE	CHG NO	NUMBER
INTERPRETATION AND TOLERANCES - DRAWING	24 MAY 2018	57	1E0011





SYNCHRONIZER	SYNC	TIMING ADVANCE UNIT TAU
SYNTHETIC DIESEL	DEO SYN	TIP-OVER PROTECTIVE TOPS
ENGINE OIL	2200	STRUCTURE
SYNTHETIC FINAL DRIVE	FDAO SYN	TIRE MOUNTING SYSTEM TMS
	I DAO 31N	TIRE PRESSURE TPMS
AND AXLE OIL	0)/0	
SYSTEM	SYS	MONITORING SYSTEM
SYSTEM ON CHIP	SOC	TO BE DETERMINED TBD
Т		TOGGLE TGL
TACHOGRAPH	TACHGR	TOLERANCE TOL
TACHOMETER	TACH	TOOL BAR TB
TAILGATE	TGT	ТООТН
TAN	T	TOP DEAD CENTER TDC
TAN (WIRE COLOR ONLY)	TN	TOP MOUNTED TM
TANDEM	TDM	TORQUE TRQ
TANDEM DRIVE	TD	(FORMERLY TOR)
TANGENT	TAN.	TORQUE CONVERTER TC
TANK	TK	TORQUE DIVIDER TDR
TEETH	T	TORQUE MODULATING TMC
TELESCOPING	TEL	CONVERTER
TELESCOPIC	TSPC	TORQUE
TEMPERATURE	TEMP	PROPORTIONING
TEMPORARY	TEMP	TORQUE WRENCH TWR
TENSILE STRENGTH	TS	TORSIONAL TORNL
TENSION	TNSN	TORSION BAR TBR
TENSIONER	TNSNR	TOTAL TOT.
TERMINAL	TERM.	TOTAL BASE NUMBER TBN
TERMINAL BOARD	TB	TOTAL CARBON TC
TERMINAL TABLE	TT	TOTAL INDICATOR TIR
TERMINATING BIAS	TBC	READING
CIRCUIT		TOTAL PRODUCTIVE TPM
TEST & FILL	TF	MAINTENANCE
TEST REQUIREMENT	TRD	TOUCHSCREEN TOS
DRAWING	IND	TOWING TOW.
TESTING	TSTG	TRACK (FORMERLY TCK)  TRK
TEXTURE	TEX	TRACK FELLER TFB
THREE-WAY CATALYST	TWC	BUNCHER
THERMAL	THRM	TRACK ROLLER FRAME TRF
THERMAL GRAVIMETRIC	TGA	TRACK SKIDDER TSK
ANALYSIS		TRACK TYPE TRACTOR TTT
THERMOMETER	THERM.	TRACTION CONTROL TRCONT
THERMOSTAT	THERMO	TRACTION CONTROL TCS
THERMOSTATIC	THRMSTC	SYSTEM
THICK	THK	TRACTOR ♦ TRAC
THICKNESS	THKNS	TRACTORS FOR   ◆ TRAC/S
THOUSANDTHS OF AN	♦ MIL	SCRAPERS
INCH	▼ IVIIL	TRAILING TRG
_	THD	
THREAD		TRAILER TRL
THRESHING	THRESH	TRAIN (FORMERLY TR) TRN
THROTTLE	THRT	TRAMMEL TRML
THROUGH	THRU	TRANSACTION → TRAN
THRUST	THR	TRANSFER (FORMERLY XFR
THYRISTOR	THYR	TFR)
TIER 4 FINAL	T4F	TRANSFORMER XFMR
TIGHTENER	TTNR	TRANSIENT VOLTAGE TVS
TILT	TLT	SUPPRESSOR
TILT ROTATOR	TRT	TRANSMISSION XMSN
TIMING	TMG	/ //VIOIN
THAIRAO	TIVIO	

THE INFORMATION HEREON IS THE PROPERTY OF CATERPILLAR INC. AND/OR ITS SUBSIDIARIES. WITHOUT WRITTEN PERMISSION, ANY COPYING, TRANSMITTAL TO OTHERS, AND ANY USE EXCEPT THAT FOR WHICH IT IS LOANED, IS PROHIBITED.			
	DATE	CHG NO	NUMBER
INTERPRETATION AND TOLERANCES - DRAWING	24 MAY 2018	57	1E0011





TRANSMISSION AND	TDTO	UNIFORM GROUP	♦ UGC
DRIVE TRAIN OIL		CLASSIFICATION	
TRANSMISSION	TCU	UNSWITCHED	UNSW
CONTROL PROTOCOL		UNIT	UN
TRANSMISSION MULTI	TMS	UNIT INJECTOR	Ül
SEASON		UNITED STATES	U.S.
TRANSMIT	XMT	UNITED STATES GAGE	USG
TRANSPORT	TRANSP	(FORMERLY USGA)	000
TRANSPORTATION	TRANSP	UNITED STATES OF	U.S.A.
TRANSVERSE	TRANSV	AMERICA	0.0.71.
TRAPEZOIDAL HOLE	TH	UNITED STATES	USS
TRAVEL	TRVL	STANDARD	033
TREAD	TRD	UNIVERSAL	UNIV
TREATED	TRTD	UNIVERSAL MOBILE	UMTS
TREATMENT	TRTMT	TELECOMUNICATIONS	
TRENCHING	TREN	SYSTEM	LITO
TRIPLE (FORMERLY TRI)	TPL	UNIVERSAL TOTAL	UTS
TRIPLE GROUSER	TG	STATION	
TRUCK	TRK	UNLOADER	UNL
TRUNNION	TRUN	UNLOADING	UNL
TUNGSTEN INERT GAS	TIG	UPPER	UPR
TURBINE	TURB	UPGRADE	UPG
TURBOCHARGED &	TA	UPSHIFT	UPSFT
AFTERCOOLED			♦ USG
TURBOCHARGER	** TURBO (T)	USER DATAGRAM	UDP
TURBO EXHAUST	TED	PROTOCOL	
DIFFUSER		UTILITY	UTIL
TURNTABLE	TRNTBL		
TWIN SCREW EXTRUDER	TSE	V	
TWIN TURBOCHARGER	TT	VACUUM INDUCTION	VIM
TWIN TURBOCHARGER	TTA	MELT	
AFTERCOOLED		VALVE	V
TYPICAL	TYP	VALVE CLOSING	VCP
U		PRESSURE	
ULTRA LEAN BURN	ULB	VALVE KEEPER	VKPR
ULTRA LOW EMISSIONS	ULE	VALVE LASH	VL
ULTRA LOW SULFUR	ULS	VALVE OPENING	VOP
ULTRA LOW SULFUR	ULSD	PRESSURE	
DIESEL		VANDALISM	VANDAL.
ULTRA VIOLET	UV	VANE	VN
ULTRA-WIDE BAND	UWB	VARIABLE	VAR
ULTRASONIC	Ül	VARIABLE ANGLE BOOM	VAB
INSPECTION		VARIABLE GEOMETRY	VG
ULTRASONIC PEENING	UP	VARIABLE NOZZLE	VNT
ULTRASONIC TESTING	UT	TURBINE	
UNCOATED	UNCTD	VARIABLE PITCH FAN	VPF
UNIFIED NATIONAL J	UNJ	VARIABLE PITCH POWER	VPAT
SERIES (BOLTS)	0140	ANGLE AND TILT	VIII
UNDERCARRIAGE	UNDCRG	VARIABLE SHIFT	VSC
UNDERFRAME	UNDFR	CONTROL	VOO
UNDERGROUND	UGND	VARIABLE SPEED	VS
UNDERSIZE	US	VARIABLE SPEED	VV
UNDERWRITERS	UL	VARIABLE VALVE	VV VVA
LABORATORY	UL	ACTUATION	VVA
	LIDD		\/EU
UNDULATIONS PER REVOLUTION	UPR	VEHICLII AB	VEH
KEVOLUTION		VEHICULAR	VE
		ENVIRONMENTAL	

THE INFORMATION HEREON IS THE PROPERTY OF CATERPILLAR INC. AND/OR ITS SUBSIDIARIES. WITHOUT WRITTEN PERMISSION, ANY COPYING, TRANSMITTAL TO OTHERS, AND ANY USE EXCEPT THAT FOR WHICH IT IS LOANED, IS PROHIBITED.			
	DATE	CHG NO	NUMBER
INTERPRETATION AND TOLERANCES - DRAWING	24 MAY 2018	57	1E0011





VERNIER ◆	VERN	WEAR	WR
(FORMERLY VER)	=: -: -:	WEATHER	WEA
VERSED SINE	VERS	WEATHER SYSTEM	WX
VERSION	VER	INTERFACE	••••
VERSUS	VS	WEIGHT	WT
VERY HIGH BOND	VHB	WELDING PROCEDURE	WPS
VIBRATE	VIB	SPECIFICATION	******
VIBRATION	VIB	WELL SERVICE	WSERV
VIBRATORY	VIB	WELL STIMULATION	WS
VICKER HARDNESS	Hv	WET BULB	WB
VIEW	VW	WET	WVP
VIOLET (FORMERLY VI)	VIO	VACUUM/PRESSURE	
VIRTUAL DESIGN,	VDRA	WHEEL	WHL
REVIEW AUDIT, AND		WHEEL FELLER	
BUILD		BUNCHER	WFB
VIRTUAL PROCESS	VPP	WHEEL LOADER	♦ WL
PLANNING		WHEEL TRACTOR	♦ WTS
VISIBILITY	VIS	SCRAPER	
VITAL INFORMATION	VIMS	WHEEL TYPE TRACTOR	♦ WTT
MANAGEMENT SYSTEM		WHEN PRACTICAL	♦ W/P
VOLT	V	WHITE (FORMERLY W)	WH
VOLTAGE	V	WIDTH`	WD
VOLTAGE LIMITING	VLPM	WINCH	WN
PROTECTION MODULE		WINDOW	WDO
VOLTS PEAK TO PEAK	VPTP	WINDOWS MEDIA	WMA
VOLT-AMPERE	VA	APPLICATION	
VOLTMETER	VM		♦ WNDRW
VOLUME	VOL	WINDSHIELD	WSHLD
W		WIRELESS FIDELITY	WIFI
WARNING (FORMERLY	WRN	WIRING	WRG
WARN)		WITH	W/
WASHBURN & MOEN	WMGA	WITHOUT	W/O
GAGE (FORMERLY		WOODRUFF	WDF
W&M GA)		WORK AREA VISION	WAVS
WASHDOWN	WDN	SYSTEM	
WASHER	WSHR	WORK IN PROCESS	♦ WIP
WASTE DISPOSAL	WDA	WORK LIGHT	WKLT
ARRANGEMENT	14/555	WORK TOOL	WKTL
WASTE ELECTRICAL AND	WEEE	WORKING LOAD LIMIT	WLL
ELECTRONIC		Y	
EQUIPMENT	14/114	YARD	♦ YD
WASTE HANDLER	WHA	YEAR	YR
ARRANGEMENT	1100	YELLOW (FORMERLY Y)	YL
WATER *	H2O	YELLOW MARK™	YM
WATER DISTRIBUTION	WTR	YIELD POINT	YP
WATER DISTRIBUTION	WDS	YIELD STRENGTH	YS
SYSTEM	\\/!		
WATER IN FUEL	WIF		
WATT	W		

Figure 18 - General Abbreviations, Acronyms, And Symbols

THE INFORMATION HEREON IS THE PROPERTY OF CATERPILLAR INC. AND/OR ITS SUBSIDIARIES. WITHOUT WRITTEN PERMISSION, ANY COPYING, TRANSMITTAL TO OTHERS, AND ANY USE EXCEPT THAT FOR WHICH IT IS LOANED, IS PROHIBITED.			
	DATE	CHG NO	NUMBER
INTERPRETATION AND TOLERANCES - DRAWING	24 MAY 2018	57	1E0011

### CATERPII I AR INC





#### 6.12 Chemical Element

ALUMINUM	AL	
ANTIMONY (STRIBIUM)	Sb	
ARSENIC	As	
BARIUM	Ва	
BERYLLIUM	Be	
BISMUTH	Bi	
BORON	В	
BROMINE	Br	
CADMIUM	Cd	
CALCIUM	Ca	
CARBON	С	
CHLORINE	CI	
CHROMIUM	Cr	
COBALT	Co	
COLUMBIUM (NIOBIUM) Cb	(Nb)	
COPPER	Cu	
FLUORINE	F	
GOLD (AURUM)	Au	
HELIUM	He	
HYDROGEN	Н	
INDIUM	In	
IODINE	I	
IRIDIUM	lr	
IRON (FERRUM)	Fe	
LEAD (PLUMBUM)	Pb	
LITHIUM	Li	
MAGNESIUM	Mg	
MANGANESE	Mn	
MERCURY (HYDRARGYRUM)	Hg	
MOLYBDENUM	Mo	
	Ciaura 10	Chan

NEON	Ne
NICKEL	Ni
NITROGEN	N
NITROGEN OXIDE	NOx
OXYGEN	Ο
PALLADIUM	Pd
PHOSPHORUS	Р
PLATINUM	Pt
POTASSIUM (KALIUM)	K
RADIUM	Ra
RHODIUM	Rh
RUTHENIUM	Ru
SELENIUM	Se
SILICON	Si
SILVER (ARGENTUM)	Ag
SODIUM (NATRIUM)	Na
STRONTIUM	Sr
SULFUR	S
TANTALUM	Та
TELLURIUM	Te
THALLIUM	TI
TIN (STANNIUM)	Sn
TITANIUM	Ti
TUNGSTEN (WOLFRAM)	W
URANIUM	U
VANADIUM	V
ZINC	Zn
ZIRCONIUM	Zr

Figure 19 - Chemical Element Symbols

THE INFORMATION HEREON IS THE PROPERTY OF CATERPILLAR INC. AND/OR ITS SUBSIDIARIES. WITHOUT WRITTEN PERMISSION, ANY COPYING, TRANSMITTAL TO OTHERS, AND ANY USE EXCEPT THAT FOR WHICH IT IS LOANED, IS PROHIBITED.			
	DATE	CHG NO	NUMBER
INTERPRETATION AND TOLERANCES - DRAWING	24 MAY 2018	57	1E0011





#### 6.13 Plastic Family Names

PLASTIC FAMILY NAME	ABBR	EXAMPLE OF COMMON NAMES AND/OR TRADE NAMES
ACRYLONITRILE/BUTADIENE/STYRENE	ABS	ABS, CYCOLAC, ABSON, KRALASTIC, LUSTRAN, ABSAFIL, DYLEL
ACRYLONITRILE/METHYL METHACRYLATE	AMMA	
ACRYLONITRILE/STYRENE/ACRYLATE	ASA	LURAN
CARBOXYMETHYL CELLULOSE	CMC	
CASEIN	CS	
CELLULOSE ACETATE	CA	TENITE, ETHOCEL, AMPOL
CELLULOSE ACETATE BUTYRATE	CAB	TENITE, ETHOCEL, UVEX
CELLULOSE ACETATE PROPIONATE	CAP	TENITE, ETHOCEL
CELLULOSE NITRATE	CN	NITROCELLULOSE
CELLULOSE PROPIONATE	CP	TENITE ETHOCEL
CHLORINATED POLYETHYLENE	CPE	ARYLON, CHLORINATED POLYETHER, THERMO
CRESOL-FORMALDEHYDE	CF	
EPOXIDE; EPOXY	EP	EPON, EPO, EPOTUF, ARALDITE
ETHYL CELLULOSE	EC	ETHOCEL, DURILITE
ETHYLENE/ETHYL ACRYLATE	EEA	
ETHYLENE METHACRYLATE ACID	EMA	IONOMER, SURLYN
ETHYLENE/PROPYLENE	EPM	TPO,TPR
ETHYLENE/PROPYLENE DIENE MODIFIED	EPDM	EPDM, NORDEL
ETHYLENE/VINYL ACETATE	EVA	
MELAMINE-FORMALDEHYDE	MF	MELAMINE, DIARON, ISOMIN, MELMAC, PERMELITE, RESIMENE, CYMEL
PERFLUORO (ETHYLENE/PROPYLENE); TETRAFLUOROETHYLENE/HEXAFLUORO PROPYLENE	FEP	TEFLON, FLUOROCOMP
PHENOL-FORMALDEHYDE	PF	PHENOLIC, BAKELITE, DUREZ, GENAL, RESINOX, AMBEROL, PLYOPHEN
POLYAMIDE	PA	NYLON, CAPRON, ZYTEL, RILSAN, MINLON, VYDYNE WELLAMID
POLYAMIDE-IMIDE	PAI	TORLON
POLYARAMID	PARA	
POLYARYLETHER	PAE	ARYLON, XYLOK
POLYARYLSULFONE	PASU	ASTREL
POLYBUTENE-1	PB	
POLYCARBONATE	PC	LEXAN, MERLON
POLYCHLOROTRIFLUOROETHYLENE	PCTFE	HALON, KEL-F, ACLON
POLY (DIALLYL PHTHALATE)	PDAP	DAPON, DUREZ, POLY-DAP
POLYESTER (ETHER ESTER BLOCK COPOLYMER)	EEBC	HYTREL
POLYESTER, THERMOPLASTIC;	PBT	CELANEX, VALOX, RYNITE, GAFITE,
POLY (BUTYLENE TEREPHTHALATE)	DET	VERSEL HOSTADUR DVAITE
POLYESTER, THERMOPLASTIC; POLY (ETHYLENE TEREPHTHALATE)	PET	HOSTADUR, RYNITE
POLYESTER, THERMOPLASTIC; POLY (TETRAMETHYLENE TEREPHTHALATE)	PTMT	PTMT
POLYESTER, UNSATURATED; THERMOSET	UP	SMC, PREMI-GLAS, SELECTRON,
		VIBRINMAT
POLY (TETRAMETHYLENE TEREPHTHALAE)		
POLYESTER, UNSATURATED; THERMOSET	UP	SMC, PREMI-GLAS, SELECTION, VIBRINMAT

THE INFORMATION HEREON IS THE PROPERTY OF CATERPILLAR INC. AND/OR ITS SUBSIDIARIES. WITHOUT WRITTEN PERMISSION, ANY COPYING, TRANSMITTAL TO OTHERS, AND ANY USE EXCEPT THAT FOR WHICH IT IS LOANED, IS PROHIBITED.			
	DATE	CHG NO	NUMBER
INTERPRETATION AND TOLERANCES - DRAWING	24 MAY 2018	57	1E0011





PLASTIC FAMILY NAME	ABBR	EXAMPLE OF COMMON NAMES AND/OR TRADE NAMES
POLYETHERETHERKETONE	PEEK	VICTREX
POLYETHER SULFONE	PESU	
POLYETHYLENE	PE	DYLAN, FORTIFLEX, MARLEX,
		ALATHON, HI-FAX, HOSTALEN, PAXON
POLY (ETHYLENE OXIDE)	PEO	
POLYIMIDE	PI	GEMON, SKYBOND, PYRALIN, VESPEL
POLYISOBUTYLENE	PIB	OPPANOL
POLY (METHYL METHACRYLATE)	PMMA	ACRYLIC, PLEXIGLAS, LUCITE, ACRYLITE, IMPLEX
POLY (4-METHYLPENTENE-1)	PMP	TPX
POLYOXYMETHYLENE, POLYFORMALDEHYDE	POM	ACETAL, CELCON, DELRIN
POLY (PHENYLENE OXIDE); PHENOXY, POLYARL ETHER	POP	NORYL, OLEFLO
POLYPROPYLENE	PP	PROFAX, OLEFLO, MARLEX, OLEMER, AZDEL, DYPRO
POLY (PROPYLENE OXIDE)	PPOX	, -
POLYPHENYLENE SULFIDÉ	PPS	RYTON
POLYPHENYLENE SULFONE	PPSU	-
POLY-P-OXYBENZOATE	POB	EKKCEL
POLYSULFONE	PSU	UDEL, SULFIL, THERMALUX
POLYSTYRENE	PS	LUSTREX, DYLENE, STYRON, DURATON,
		FOSTACRYL
POLYTETRAFLUOROETHYLENE	PTFE	TEFLON, HALON, TETRAN, FLUON
POLYURETHANE, THERMOPLASTIC	TPUR	PELLETHANE, ESTANE, ROYLAR, TEXIN
POLYURETHANE, THERMOSET	PUR	CASTETHANE, BAYFLEX
POLY (VINYL ACETATE)	PVAC	VINYLITE, GELVA
POLY (VINYL ALCOHOL)	PVAL	ELVANOL, GELVATOL
POLY (VINYL BUTYRAL)	PVB	VINYLITE, BUTVAR
POLY (VINYL CHLORIDE)	PVC	GEON, VINYLITE, PLIOVIC
POLY (VINYL CHLORIDE ACETATE;		
POLY (VINYL CHLORIDE CO VINYL ACETATE)	PVCA	
POLY (VINYL FLUORIDE)	PVF	TEDLAR
POLY (VINYL FORMAL)	PVFM	FORMVAR
POLY (VINYLIDENE CHLORIDE)	PVDC	SARAN
POLY (VINYLIDENE FLUORIDE)	PVDF	KYNAR
POLYVINYLCARBAZOLE	PVK	LUVICAN
POLYVINYLPYRROLIDONE	PVP	
SILICONE	SI	
STYRENE-ACRYLONITRILE	SAN	LUSTRAN, TYRIL, FOSTACRYL
STYRENE-BUTADIENE	SB	K-RESINS, ANDREZ, ELEXAR, PLIOLITE
STYRENE-ETHYLENE BUTYLENE-STYRENE	SEBS	KRATON
STYRENE MALEIC ANHYDRIDE	SMA	DYLARK
STYRENE (a-METHYLSTYRENE)	SMS	
UREA-FORMALDEHYDE	UF	BEETLE, PLASKON, SKANOPAL
VINYL CHLORIDE/ETHYLENE	VCE	VYNATHENE
VINYL CHLORIDE/ETHYLENE/METHYL ACRYLATE	VCEMA	
VINYL CHLORIDE/METHYL ACRYLATE	VCMA	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
VINYL CHLORIDE/VINYL ACETATE	VCVAC	VINYLITE
VINYL CHLORIDE/VINYLIDENE CHLORIDE	VCVDC	GEON
VINYL ESTER, UNSATURATED, THERMOSET  Figure 20 - Plastic Fam	UVE	DERAKANE

Figure 20 - Plastic Family Name Abbreviations

THE INFORMATION HEREON IS THE PROPERTY OF CATERPILLAR INC. AND/OR ITS SUBSIDIARIES. WITHOUT WRITTEN PERMISSION, ANY COPYING, TRANSMITTAL TO OTHERS, AND ANY USE EXCEPT THAT FOR WHICH IT IS LOANED, IS PROHIBITED.					
	DATE	CHG NO	NUMBER		
INTERPRETATION AND TOLERANCES - DRAWING	24 MAY 2018	57	1E0011		



#### 6.14 Rubber Family Names

CHEMICAL FAMILY NAME	ABBR	TRADE OR COMMON NAME
ACRYLIC-ETHYLENE	AEM	VAMAC
BROMO-ISOBUTENE-ISOPRENE	BIIR	BROMOBUTYL
BUTADIENE	BR	BUDENE
CARBOXYLIC-NITRILE-BUTADIENE	XNBR	BOBENE
CHLORO-ISOBUTENE-ISOPRENE	CIIR	CHLOROBUTYL
CHLORINATED POLYETHYLENE	CM	
CHLOROPRENE	CR	NEOPRENE
CHLOROSULFONATED POLYETHYLENE	CSM	HYPALON
EPICHLOROHYDRIN	ECO	HYDRIN, HERCHLOR
ETHYLENE - PROPYLENE DIENE MODIFIED	EPDM	EPDM
FLUORINATED HYDROCARBON	FKM	FLUOROCARBON VITON
FLUORINATED SILICONE	FVMQ	
(FORMERLY FVMO)		
HYDROGENATED NITRILE BUTADIENE	HNBR	THERBAN, ZEPTOL
ISOPRENE	IR	SYNTHETIC NATURAL
NATURAL	NR	
NITRILE BUTADIENE	NBR	NITRILE, BUNA-N
PERFLUOROCARBON	FFKM	KALREZ
POLYACRYLATE	ACM	ACRYLATE
POLYESTER URETHANE	AU	
POLYETHER URETHANE	EU	
POLYSILOXANE	VMQ	SILICONE
POLYSULFIDE	PTR	THIOKOL
STYRENE BUTADIENE	SBR	GRS BUNA-S

Figure 21 - Rubber Family Name Abbreviations

### 6.15 Electronic Terms - Abbreviations, Acronyms, And Symbols

ABL 2C	32-BIT ELECTRONIC CONTROL BOX
ABL 2M	2-MEGABYTE ELECTRONIC CONTROL
	BOX
ABL 2CS	CONTROLLER SINGLE ELECTRONIC
	CONTROL BOX
ACIA	ASYNCHRONOUS INTERFACE
	ADAPTOR
AD	ANODE
ADC	ANALOG TO DIGITAL CONVERTER
ADEM	ADVANCED DIESEL ENGINE
	MANAGEMENT
ADEM III	ADVANCED DIESEL ENGINE
	MANAGEMENT III
AEIS	AUTOMATIC ETHER INJECTION
	SYSTEM
AIM	AVALANCHE-INDUCED MIGRATION
ALU	ARITHMETIC/LOGIC UNIT
ANR	ACTIVE NOISE REDUCTION
AOI	AND/OR INVERT
ARC.	AUTOMATIC RETARDER CONTROL

ASIC	APPLICATION SPECIFIC INTEGRATED
	CIRCUIT
ASR	AIR SHUTOFF RELAY
ATB	AC TRANSFORMER BOX
ATE	AUTOMATIC TEST EQUIPMENT
ATS	AUTOMATIC TEST SYSTEM
BA	BUSS AVAILABLE
BBD	BUCKET-BRIGADE DEVICE
BC	BOOT CODE
BCD	BINARY-CODED DECIMAL
BIT	BINARY DIGIT
BORAM	BLOCK-ORIENTED RANDOM-ACCESS
	MEMORIES
BR	BROADR-REACH
b/s	BITS PER SECOND
BTB	BUS TRANSFORMER BOX
BU	BLUE (WIRE COLOR ONLY)
BUA	BOOT UPDATE APPLICATION
BYTES	BIT BINARY WORD
CAP	CAPACITOR
CAD	COMPUTER-AIDED DESIGN
CAM	CONTENT ADDRESSABLE MEMORY

THE INFORMATION HEREON IS THE PROPERTY OF CATERPILLAR INC. AND/OR ITS SUBSIDIARIES. WITHOUT WRITTEN PERMISSION, ANY COPYING, TRANSMITTAL TO OTHERS, AND ANY USE EXCEPT THAT FOR WHICH IT IS LOANED, IS PROHIBITED.					
	DATE	CHG NO	NUMBER		
INTERPRETATION AND TOLERANCES - DRAWING	24 MAY 2018	57	1E0011		





		ı		5.5.
CAM	CUSTOMER ALARM MODULE		DSR	DATA SET READY
CAN	SAE 1939 LINK		DTL	DIODE TRANSISTOR LOGIC
CAP.	CAPACITANCE		DTR	DATA TERMINAL READY
CATH	CATHODE		DVM	DIGITAL VOLTMETER
CATT	CONTROLLED AVALANCHE TRANSIT		DMM	DIGITAL MULTIMETER
0,	TIME		E	ENABLE
CCD	CHARGE-COUPLED DEVICE		EAROM	ELECTRICALLY ALTERABLE READ-
			EAROW	
CCM	CUSTOMER COMMUNICATION MODULE			ONLY MEMORY
CDL	CATERPILLAR DATA LINK		EBCDIC	EXTENDED BINARY CODED DECIMAL
CIM	CUSTOMER INTERFACE MODULE			INTERCHANGE CODE
CMA	CLEAR MEMORY APPLICATION		ECAP	ELECTRONIC CONTROL ANALYZER
CDVR	CATERPILLAR DIGITAL VOLTAGE			PROGRAMMER
	REGULATOR		ECIM	ELECTRONIC CONTROL INTERFACE
CMDS	CATERPILLAR MONITORING & DISPLAY			MODULE
020	SYSTEM		ECL	EMITTER-COUPLED LOGIC
CML	CURRENT-MODE LOGIC		ECM	ELECTRONIC CONTROL MODULE
CMOS	COMPLEMENTARY METAL OXIDE		ECPC	ELECTRONIC CONTROL MODULE  ELECTRONIC CLUTCH PRESSURE
CIVIOS			ECPC	
01455	SEMICONDUCTOR		FOT.	CONTROL
CMRR	COMMON-MODE REJECTION RATIO		ECT1	ELECTRONIC COMPONENT TESTING 1
CMS	CATERPILLAR MONITORING SYSTEM		EDM	ELECTRICAL DISCHARGE MACHINING
CMS	COMPUTERIZED MONITORING SYSTEM		EDP	ELECTRONIC DATA PROCESSING (OR
CN	CAPACITOR NETWORK			PROCESSOR)
COL	COLENOID		EEE	ELECTRICAL & ELECTRONIC
CPA	CONNECTOR POSITION ASSURANCE			EQUIPMENT
CPLD	COMPLEX PROGRAMMABLE LOGIC		EEPROM	ELECTRICALLY ERASABLE
OI LD	DEVICE		LLIKOW	PROGRAMMABLE READ-ONLY MEMORY
CPU			EFL	EMITTER-FOLLOWER LOGIC
	CENTRAL PROCESSING UNIT			
CRT	CATHODE RAY TUBE		EFR	ENGINE FAULT RELAY
CRC	CYCLIC REDUNDANCY CHECK		EGC	ELECTRONIC GOVERNOR CONTROL
CROM	CONTROL READ-ONLY MEMORY		EIA	ELECTRONIC INDUSTRIES
CS	CHIP SELECT			ASSOCIATION
CT	CURRENT TRANSFORMER		EIS	ELECTRONIC IGINITION SYSTEM
CTR	CRANK TERMINATION RELAY		EMC	ELECTROMAGNETIC COMPATIBILITY
CTS	CONTROLLED THROTTLE SHIFTING		EMCP	ELECTRONIC MODULAR CONTROL
CVD	CHEMICAL-VAPOR DEPOSITION			PANEL
CVT	CONSTANT-VOLTAGE TRANSFORMER		EMR	ELECTROMAGNETIC RADIATION
	DIODE		EMS	
D	-			ELECTROMAGNETIC SUSCEPTIBILITY
DAC	DIGITAL TO ANALOG CONVERTOR		EOL	END OF LINE
DAS	DATA ACQUISITION SYSTEM		EPG	ELECTRONIC POWER GENERATION
DCD	DATA CARRIER DETECTED		EPROM	ERASABLE PROGRAMMABLE READ-
DDT	DIGITAL DIAGNOSTIC TOOL			ONLY MEMORY
DF	DISSIPATION FACTOR		EPTC	ELECTRONIC PROGRAMMABLE
DFA	DIGITAL FAULT ANALYSIS			TRANSMISSION CONTROL
DI	DIELECTRIC ISOLATION		EROM	ERASABLE READ-ONLY MEMORY
DIO	DIODE		ESD	ELECTROSTATIC DISCHARGE
DIP	DUAL IN-LINE PACKAGE		ESI	ELECTROSTATIC INTERFERENCE
DMA	DIRECT MEMORY ACCESS		ESR	ELECTROSTATIC RADIATION
DMAC	DIRECT MEMORY-ACCESS CONTROL		ESS	ELECTROSTATIC RADIATION ELECTRONIC SWITCHING SYSTEM
D-MOS	DOUBLE-DIFFUSED METAL-OXIDE		ESS	ENGINE SUPERVISORY SYSTEM
	SEMICONDUCTOR		ESTC	ELECTRONIC SCRAPER TRANSMISSION
DMS	DYNAMIC MAPPING SYSTEM		l	CONTROL
DMUX	DEMULTIPLEXER		ET	ELECTRONIC TECHNICIAN (OFF-BOARD
DP	DEPOPULATED			SERVICE TOOL)
DPDT	DOUBLE-POLE DOUBLE-THROW		ETP	ELECTRONIC TROLL PROCESSOR
DPM	DIGITAL PANEL METER		EUI	ELECTRONIC UNIT INJECTOR
DPST	DOUBLE-POLE SINGLE-THROW		EXTAL	EXTERNAL CRYSTAL CONNECTION
DRF	DEALER REPAIR FREQUENCY		μF	MICROFARAD (FORMERLY MFD)
2.0	2 L. LEITTEL / AITTILE GOLITOT	I	L P'	
	THE INFORMATION HEREON IS THE PROPERTY OF CATER	DILL AD INC	AND/OD ITS SLID	CIDIADIEC WITHOUT WOITTEN

THE INFORMATION HEREON IS THE PROPERTY OF CATERPILLAR INC. AND/OR ITS SUBSIDIARIES. WITHOUT WRITTEN PERMISSION, ANY COPYING, TRANSMITTAL TO OTHERS, AND ANY USE EXCEPT THAT FOR WHICH IT IS LOANED, IS PROHIBITED.					
	DATE	CHG NO	NUMBER		
INTERPRETATION AND TOLERANCES - DRAWING	24 MAY 2018	57	1E0011		





E480	FUEL AID DATIO CONTROL	1	11000	MOTOROL A BIOW OREDATING OVOTEN
FARC	FUEL-AIR RATIO CONTROL		MDOS	MOTOROLA DISK OPERATING SYSTEM
FCR	FUEL CONTROL RELAY		MESFET	METALIZED SEMICONDUCTOR FIELD-
FDM	FREQUENCY DIVISION MULTIPLEX			EFFECT TRANSISTOR
FET	FIELD-EFFECT TRANSISTOR		MGTC	MOTORGRADER TRANSMISSION
FLX	FILE TRANSFER PROGRAM			CONTROL
F-PROM	FIELD-PROGRAMMABLE READ-ONLY		MHz	MEGA HERTZ
	MEMORY		MIS	METAL INSULATOR SILICON
F-U	FULL-UP		MLB	MULTILAYER BOARD
FU	FUSE		MNOS	METAL NITRIDE-OXIDE
FUA	FIELD PROGRAMMABLE GATE ARRAY		IVIINOS	SEMICONDUCTOR
FUA			MODEM	
055	UPDATE APPLICATION		MODEM	MODULATOR/DEMODULATOR
GFR	GENSET FAULT RELAY		MOS	METAL-OXIDE SEMICONDUCTOR
GN	GREEN (WIRE COLOR ONLY)		MOSFET	METALLIC OXIDE SEMICONDUCTOR
GSC	GENERATOR SET CONTROL			FIELD-EFFECT TRANSISTOR
GXL	GENERAL PURPOSE, CROSS (X)		MPC-10	MULTI-PURPOSE CONTROL
	LINKED POLYOLEFIN INSULATED		MPPS	MULTI-POINT PRESSURE SENSING
μH	MICRO HENRY		MPU	MICROPROCESSOR UNIT
HC	HARNESS CODE		MR	MEMORY READY
HCMOS	HIGH SPEED COMPLIMENTARY METAL-		MSI	MEDIUM SCALE INTEGRATION
	OXIDE SEMICONDUCTOR		MTBF	MEAN TIME BEFORE FAILURE
HESS	HALL EFFECT SPEED SENSOR		MTTF	MEAN TIME TO FAILURE
HI	HIGH		MUX	MULTIPLEXER
HS	HIGH SIDE		mV	MILLI VOLTS
				MEDIUM VOLTAGE
H/V	HIGH VOLUME		MV	
IAD	INTERAXLE DIFFERENTIAL LOCK		mW	MILLI WATTS
IAH	INLET AIR HEATER		NDRO	NONDESTRUCTIVE READOUT
IC	INTEGRATED CIRCUIT		nF	NANOFARAD
ICE	IN-CIRCUIT EMULATOR		NFSC	NUTATOR FULL SYSTEM CONTROL
ICM	INDIVIDUAL CLUTCH MODULATION		NMOS	N CHANNEL METAL-OXIDE
ID	CURRENT DRAIN			SEMICONDUCTOR
IDS	INPUT-DATA STROBE		NRZ	NON RETURN TO ZERO
IEC	INFUSED EMITTER COUPLING		NRZI	NON RETURN TO ZERO INVERTER
10	INPUT/OUTPUT		ns	NANOSECOND
IRQ	INTERRUPT REQUEST		NPN	NEGATIVE POSITIVE NEGATIVE
IVR	INTEGRATED VOLTAGE REGULATOR		NTWK	NETWORK
JFET	JUNCTION FIELD-EFFECT TRANSISTOR		OCR	OPTICAL CHARACTER RECOGNITION
JI	JUNCTION ISOLATION		OR	ORANGE (WIRE COLOR ONLY)
kV	KILOVOLT		OST	OPEN SPIRAL TAPE
kVA	KILOVOLTAMPERE		os	OPERATING SYSTEM
LASCR	LIGHT-ACTIVATED SILICON		μP	MICROPROCESSOR
LASCIN	CONTROLLED RECTIFIER		PC	PRINTED CIRCUIT
1.00				
LCD LED	LIQUID CRYSTAL DISPLAY		PCB	PRINTED-CIRCUIT BOARD
	LIGHT-EMITTING DIODE		PCS	PAYLOAD CONTROL SYSTEM
LIC	LINEAR INTEGRATED CIRCUIT		PD	POWER DISSIPATION
LNA	LOW-NOISE AMPLIFIER		PDP	PLASMA DISPLAY PANEL
LO	LOW		PEEC	PROGRAMMED ELECTRONIC ENGINE
LS	LOW SIDE			CONTROL
LSB	LEAST SIGNIFICANT BIT		PF	POWER FACTOR
LSI	LARGE-SCALE INTEGRATION		pF	PICOFARAD
LUC	LOCK UP CLUTCH		PHS	PROGRAMMABLE HYDRAULIC SYSTEM
LV	LOW VOLTAGE		PIA	PERIPHERAL INTERFACE ADAPTER
mA	MILLI AMPS		PIP	PERMISSIVE PARALLEL
MCM	THOUSAND CIRCULAR MILS		PLA	PROGRAMMABLE LOGIC ARRAY
MCR	MAGNETO CONTROL RELAY		PLL	PHASE-LOCKED LOOP
MD	MEDIUM DUTY		PLR	POST LUBE RELAY
MDS	MICROPROCESSOR DEVELOPMENT		PM	PHASE MODULATION
14150	SYSTEM		PMG	PERMANENT-MAGNET GENERATOR
	O I O I LIVI	l	I IVIO	I LIMINITALINI ININGINET GENERATOR
	THE INFORMATION HEREON IS THE PROPERTY OF CATER	RPILLAR INC	C. AND/OR ITS SUE	BSIDIARIES. WITHOUT WRITTEN

THE INFORMATION HEREON IS THE PROPERTY OF CATERPILLAR INC. AND/OR ITS SUBSIDIARIES. WITHOUT WRITTEN PERMISSION, ANY COPYING, TRANSMITTAL TO OTHERS, AND ANY USE EXCEPT THAT FOR WHICH IT IS LOANED, IS PROHIBITED.					
	DATE	CHG NO	NUMBER		
INTERPRETATION AND TOLERANCES - DRAWING	24 MAY 2018	57	1E0011		





		7		
PMOS	P-CHANNEL (TYPE) METAL OXIDE		SIP	SINGLE INLINE PACKAGE
	SEMICONDUCTOR		SMD	SURFACE MOUNT DEVICE
PNP	POSITIVE NEGATIVE POSITIVE		SMR	STARTER MOTOR RELAY
PP	PRE-LUBE PUMP		SMT	
				SURFACE MOUNT TECHNOLOGY
PPI	PLAN POSITION INDICATOR ALSO		SOS	SILICON ON SAPPHIRE
	PROGRAMMABLE PERIPHERAL		SPDT	SINGLE-POLE DOUBLE-THROW
	INTERFACE		SPI	SERIAL PERIPHERAL INTERFACE
PRCM	PROGRAMMABLE RELAY CONTROL		SPST	SINGLE-POLE SINGLE-THROW
1 110111	MODULE		SPM	SERVICE PROGRAM MODULE
DDOM				
PROM	PROGRAMMABLE READ-ONLY MEMORY		SR	SUBORDINATE RELAY (FORMERLY
PSPS	PRODUCT SOFTWARE PROGRAMMING			SLAVE RELAY)
	SYSTEM		SSI	SMALL-SCALE INTEGRATION
PSR	PROGRAMMABLE SPARE RELAY		SSOD	SLOW SPEED OBJECT DETECTION
PT	POTENTIAL TRANSFORMER		STIC	STEERING TRANSMISSION
PTH	PLATED-THROUGH HOLES		01.0	INTEGRATED CONTROL
PTM			STX	
	PROGRAMMABLE TIMER MODULE		317	STARTER OR GROUND, THIN WALL,
PUT	PROGRAMMABLE UNIJUNCTION			CROSS (X) LINKED POLYOLEFIN
	TRANSISTOR			INSULATED
PWM	PULSEWIDTH MODULATION		SUA	SLAVE UPDATE APPLICATION
PYRO	PYROMETER		SUS	SILICON UNILATERAL SWITCH
Q	TRANSISTOR		SXL	SPECIAL PURPOSE, CROSS (X) LINKED
QNX6	OPERATING SYSTEM BUNDLE		5/\L	POLYOLEFIN INSULATED
			TC	
R	RESISTOR			THERMOCOUPLE
RALU	REGISTER AND ARITHMETIC AND		THMS	THERMISTER
	LOGIC UNIT		TEHC	TOTAL ELECTRONIC HYSTAT CONTROL
RAM	RANDOM ACCESS MEMORY		TMC	TORQUE MODULATED CONVERTER
RAOA	RAMPED ADVANCE ON ACCELERATION		TNC	THREADED NEILL-CONCELMAN
	TIMING		TPA	TERMINAL POSITION ASSURANCE
RDM	RELAY DRIVER MODULE		TPMS	TRUCK PAYLOAD MEASUREMENT
			11 1010	
RDS (ON)	RESISTANCE DRAIN TO SOURCE ON			SYSTEM
	CONDITION		TTL	TRANSISTOR-TRANSISTOR LOGIC
RE	RAM ENABLE		TTY	TELETYPEWRITER
RFI	RADIO FREQUENCY INTERFERENCE		TUV	TECHNISCHER UBERSACHUNGS-
RL	RETURN LOSS			VERSION
RIM	READ-IN MODE		TXD	TRANSMIT EXCHANGE DATA
RIOTM	ROM-INPUT/OUTPUT-TIMER MODULE		TXL	THIN WALL, CROSS (X) LINKED
RMM	READ-MOSTLY MEMORY		17.2	POLYOLEFIN INSULATED
			LIADT	
RES	RESISTOR		UART	UNIVERSAL ASYNCHRONOUS
ROM	READ-ONLY MEMORY			RECEIVER TRANSMITTER
RR	RUN RELAY		ULVC	UPPER LOW VOLTAGE CONTROL
RT	THERMISTOR		URCLK	UNIVERSAL RECEIVER CLOCK
RTD	RESISTANT TEMPERATURE DETECTOR		USART	UNIVERSAL SYNCHRONOUS/
RTL	RESISTOR-TRANSISTOR LOGIC			ASYNCHRONOUS RECEIVER
RW	READ/WRITE			TRANSMITTER
			LICE	
RXD	RECEIVE EXCHANGE DATA		USB	UNIVERSAL SERIAL BUS
μs	MICROSECOND		USB	UNSWITCHED BATTERY (24V W/KEY
SAL	SINGLE AXIS LEVER			SWITCH OFF, DISCONNECT SWITCH ON
SB	SWITCHED BATTERY (24V W/KEY		USRT	UNIVERSAL SYNCHRONOUS
	SWITCH ON, DISCONNECT SWITCH			RECEIVER/TRANSMITTER
	OFF)		UTCLK	UNIVERSAL TRANSMITTER CLOCK
sc	SEMICONDUCTOR		VAC	VOLTAGE-ALTERNATING CURRENT
			_	
SCA	SUBCHANNEL ADAPTER		VAR	VOLTAMP REACTANCE
SCR	SILICON-CONTROLLED RECTIFIER		VBUS	USB DEVICE POWER LINE
SDLC	SYNCHRONOUS DATA LINK CONTROL		VCBO	VOLTAGE COLLECTOR-BASE
SGX	STARTER OR GROUND, GENERAL		VCC	VOLTAGE SUPPLY (LOGIC)
	PURPOSE CROSS (X) LINKED		VCEO	VOLTAGE COLLECTOR-EMITTOR
	POLYOLEFIN INSULATED		VCO	VOLTAGE-CONTROLLED OSCILLATOR
L		1		-

THE INFORMATION HEREON IS THE PROPERTY OF CATERPILLAR INC. AND/OR ITS SUBSIDIARIES. WITHOUT WRITTEN PERMISSION, ANY COPYING, TRANSMITTAL TO OTHERS, AND ANY USE EXCEPT THAT FOR WHICH IT IS LOANED, IS PROHIBITED.					
	DATE	CHG NO	NUMBER		
INTERPRETATION AND TOLERANCES - DRAWING	24 MAY 2018	57	1E0011		



VDC	VOLTAGE-DIRECT CURRENT	VR	VOLTAGE REGULATOR	
VDD	VOLTAGE SUPPLY (LOGIC)	VREF	VOLTAGE REFERENCE	
VDG	VIDEO DISPLAY GENERATOR	VSS	VOLTAGE GROUND (LOGIC)	
VDS	VOLTAGE DRAIN TO SOURCE	VSWR	VOLTAGE STANDING WAVE RATIO	
VEBO	VOLTAGE EMITTER BASE	WAVS	WORK AREA VISION SYSTEM	
VFD	VACUUM FLORESCENT DISPLAY	WLPMS	WHEEL LOADER PAYLOAD	
VGS	VOLTAGE GATE TO SOURCE		MEASUREMENT SYSTEM	
VHF	VERY HIGH FREQUENCY	XCVR	TRANSCEIVER	
VIL	VERTICAL INJECTION LOGIC	XDCR	TRANSDUCER	
VIMS	VITAL INFORMATION MANAGEMENT	XFMR	TRANSFORMER	
	SYSTEMS	XLPE	CROSS-LINKED POLYETHYLENE	
VMA	VALID MEMORY REQUEST	XLPO	CROSS-LINKED POLYOLEFIN	
VMIC	VEHICLE MANAGEMENT INFORMATION	XOR	EXCLUSIVE-OR GATE	
	CENTER	XSTR	TRANSISTOR	
VMIS	VEHICLE MANAGEMENT INFORMATION	XTAL	INTERNAL CRYSTAL CONNECTION	
	SYSTEM			_
VPI	VACUUM PRESSURE IMPREGNATION			

Figure 22 - Electronic Terms - Abbreviations, Acronyms, And Symbols

#### 6.16 Dielectric General Specification Document Identifiers

COG	Z5V
C0H	CH
U2J	CJ
X8G	CK
X5R	SL
X5S	UJ
X5T	CG
X6S	CGJ
X6T	ZLM
X7R	В
X7S	С
X7T	D
X7U	E
X8R	F
X8L	R
Y5V	

Figure 23 – Dielectric General Specifications

#### 6.17 Coupling Series Designation Identifiers

DS4 ESA	PL
ESA	SW
IN	S4G
JN	XMN
MN	XN
MH	XN4
MCSH	XN6
MCSM	TR

Figure 24 – Coupling Series Designations

THE INFORMATION HEREON IS THE PROPERTY OF CATERPILLAR INC. AND/OR ITS SUBSIDIARIES. WITHOUT WRITTEN PERMISSION, ANY COPYING, TRANSMITTAL TO OTHERS, AND ANY USE EXCEPT THAT FOR WHICH IT IS LOANED, IS PROHIBITED.			
	DATE	CHG NO	NUMBER
INTERPRETATION AND TOLERANCES - DRAWING	24 MAY 2018	57	1E0011



#### 6.18 Hydraulic Group Name Abbreviations And Acronyms

1 - TANK	K AND VALVE GROUPS
Α	FILTER INCLUDED
В	NO FILTER
CP GR LM OP PL PR PS RV SM	OPEN LOOP PUMP PISTON (LINK) PISTON (RADIAL) PISTON (SLIPPER) ROLLER VANE
12 - ROT	TATION
L	COUNTER CLOCKWISE
R U	CLOCKWISE EITHER DIRECTION (MOTOR)
	,
15 - TYP         U	PE OF CYLINDER MOUNTING SPECIAL
V W	FLANGE-HEAD END
X	TRUNNION - FEMALE TRUNNION - MALE
Υ	END MOUNTIED - PIN, HEAD END
Z	END MOUNTED - BALL, HEAD END
	PLACEMENT PACKAGE SIZE - PISTON PUMP
A MOTO	PR (LINK) 157/246 cm3/REV
В	285/410 cm3/REV
C D	547/737 cm3/REV 1082/1245 cm3/REV
24 DIG	TON PUMP AND MOTOR
F	FIXED DISPLACEMENT
V	VARIABLE DISPLACEMENT
	PLACEMENT PACKAGE SIZE - PISTON PUMP
& MOTO	PR (SLIPPER) 77/88 cm3/REV
В	

C D	247 cm3/REV 428 cm3/REV
26 - GEA BEO BFT BMG BSO EO FT MG SO	IR PUMP APPLICATION ENGINE OIL (BASIC) FUEL TRANSFER (BASIC) MARINE GEAR OIL (BASIC) SCAVENGE OIL (BASIC) ENGINE OIL FUEL TRANSFER MARINE GEAR OIL SCAVENGE OIL
29 - DISF & MOTO A B C D E F G	PLACEMENT PACKAGE SIZE - PISTON PUMP R 65/89 cm3 90/119 cm3 120/154 cm3 155/204 cm3 205/279 cm3 280/369 cm3 370/470 cm3 0/16 CM3
	E OF CIRCUIT CLOSED CENTER LOAD SENSING OPEN CENTER
32 - TYP LR NR	E OF METERING PUMP LOAD REACTING NON-LOAD REACTING
33 - CON CR ES IF IR LS PL PS RR TI	ITROL TYPE CHARGING RELIEF ELECTRONIC SENSING INTERNAL FLUSHING INTERNAL RESOLVER LOAD SENSING PRESSURE LIMIT PILOT SENSING CHARGE & RELIEF TORQUE LIMIT

Figure 25 - Hydraulic Group Name Abbreviations And Acronyms

THE INFORMATION HEREON IS THE PROPERTY OF CATERPILLAR INC. AND/OR ITS SUBSIDIARIES. WITHOUT WRITTEN PERMISSION, ANY COPYING, TRANSMITTAL TO OTHERS, AND ANY USE EXCEPT THAT FOR WHICH IT IS LOANED, IS PROHIBITED.			
	DATE	CHG NO	NUMBER
INTERPRETATION AND TOLERANCES - DRAWING	24 MAY 2018	57	1E0011



#### 6.19 Thread Series Designations

8-THREAD SERIES  12N AMERICAN NATIONAL 12-THREAD SERIES  16N AMERICAN NATIONAL 16-THREAD SERIES  ACME-C ACME THREADS, CENTRALIZING  ACME-G ACME THREADS, GENERAL PURPOSE  STUB STUB ACME THREAD  ACME  AMO AMERICAN STANDARD MICRO- SCOPE OBJECTIVE THREAD  ANPT AERONAUTICAL TAPER PIPE THREAD  BUTT AMERICAN STANDARD BUTTTESS THREAD  NC AMERICAN NATIONAL COARSE THREAD SERIES  NEF AMERICAN NATIONAL EXTRA- FINE THREAD SERIES  NF AMERICAN NATIONAL FINE THREAD SERIES  NGO AMERICAN NATIONAL GAS OUTLET THREAD  NH AMERICAN NATIONAL HOSE COUPLING AND FIRE HOSE COUPLING THREADS  NS SPECIAL THREADS OF AMERICAN NATIONAL FORM  NPS AMERICAN STANDARD STRAIGHT THREAD  NPSC AMERICAN STANDARD STRAIGHT PIPE THREAD  IN COUPLINGS  NPSF AMERICAN STANDARD STRAIGHT PIPE THREAD  NPSH AMERICAN STANDARD STRAIGHT PIPE THREAD  NPSH AMERICAN STANDARD STRAIGHT PIPE THREAD FOR HOSE COUPLINGS AND NIPPLES  NPSI AMERICAN STANDARD STRAIGHT PIPE THREAD FOR HOSE COUPLINGS AND NIPPLES  NPSI AMERICAN STANDARD STRAIGHT PIPE THREAD  NPSH AMERICAN STANDARD STRAIGHT PIPE THREAD		
12N AMERICAN NATIONAL 12-THREAD SERIES 16N AMERICAN NATIONAL 16-THREAD SERIES ACME-C ACME THREADS, CENTRALIZING ACME-G ACME THREADS, GENERAL PURPOSE STUB STUB ACME THREAD ACME AMO AMERICAN STANDARD MICRO- SCOPE OBJECTIVE THREAD ANPT AERONAUTICAL TAPER PIPE THREAD BUTT AMERICAN STANDARD BUTTRESS THREAD NC AMERICAN NATIONAL COARSE THREAD SERIES NEF AMERICAN NATIONAL EXTRA- FINE THREAD SERIES NF AMERICAN NATIONAL FINE THREAD SERIES NGO AMERICAN NATIONAL GAS OUTLET THREAD NH AMERICAN NATIONAL HOSE COUPLING AND FIRE HOSE COUPLING THREADS NS SPECIAL THREADS OF AMERICAN NATIONAL FORM NPS AMERICAN STANDARD STRAIGHT THREAD NPSC AMERICAN STANDARD STRAIGHT THREAD NPSC AMERICAN STANDARD STRAIGHT PIPE THREAD NPSF AMERICAN STANDARD STRAIGHT PIPE THREAD NPSH AMERICAN STANDARD STRAIGHT PIPE THREAD	8N	AMERICAN NATIONAL
12-THREAD SERIES  16N AMERICAN NATIONAL 16-THREAD SERIES  ACME-C ACME THREADS, CENTRALIZING ACME-G ACME THREADS, GENERAL PURPOSE STUB STUB ACME THREAD  ACME  AMO AMERICAN STANDARD MICRO- SCOPE OBJECTIVE THREAD  ANPT AERONAUTICAL TAPER PIPE THREAD  BUTT AMERICAN STANDARD BUTTRESS THREAD  NC AMERICAN NATIONAL COARSE THREAD SERIES  NEF AMERICAN NATIONAL EXTRA- FINE THREAD SERIES  NF AMERICAN NATIONAL FINE THREAD SERIES  NGO AMERICAN NATIONAL FINE THREAD SERIES  NGO AMERICAN NATIONAL HOSE COUPLING AND FIRE HOSE COUPLING AND FIRE HOSE COUPLING THREADS  NS SPECIAL THREADS  NS SPECIAL THREAD  NPS AMERICAN STANDARD STRAIGHT THREAD  NPSC AMERICAN STANDARD STRAIGHT PIPE THREAD  NPSF AMERICAN STANDARD STRAIGHT PIPE THREAD FOR HOSE COUPLINGS AND NIPPLES  NPSI AMERICAN STANDARD STRAIGHT PIPE THREAD FOR HOSE COUPLINGS AND NIPPLES  NPSI AMERICAN STANDARD STRAIGHT PIPE THREAD FOR HOSE COUPLINGS AND NIPPLES  NPSI AMERICAN STANDARD STRAIGHT PIPE THREAD  (DRYSEAL)  NPSM AMERICAN STANDARD STRAIGHT PIPE THREAD  (DRYSEAL)  NPSM AMERICAN STANDARD STRAIGHT PIPE THREAD		
16N AMERICAN NATIONAL 16-THREAD SERIES  ACME-C ACME THREADS, CENTRALIZING  ACME-G ACME THREADS, GENERAL PURPOSE  STUB STUB ACME THREAD  ACME  AMO AMERICAN STANDARD MICRO- SCOPE OBJECTIVE THREAD  ANPT AERONAUTICAL TAPER PIPE THREAD  BUTT AMERICAN STANDARD  BUTTRESS THREAD  NC AMERICAN NATIONAL COARSE THREAD SERIES  NEF AMERICAN NATIONAL EXTRA- FINE THREAD SERIES  NF AMERICAN NATIONAL FINE THREAD SERIES  NGO AMERICAN NATIONAL FINE THREAD SERIES  NGO AMERICAN NATIONAL HOSE COUPLING AND FIRE HOSE COUPLING AND FIRE HOSE COUPLING THREADS  NS SPECIAL THREADS  NS SPECIAL THREAD  NPS AMERICAN STANDARD STRAIGHT THREAD  NPSC AMERICAN STANDARD STRAIGHT PIPE THREAD  IN COUPLINGS  NPSF AMERICAN STANDARD STRAIGHT PIPE THREAD FOR HOSE COUPLINGS AND NIPPLES  NPSI AMERICAN STANDARD STRAIGHT PIPE THREAD FOR HOSE COUPLINGS AND NIPPLES  NPSI AMERICAN STANDARD STRAIGHT PIPE THREAD INTERNAL STRAIGHT PIPE THREAD (DRYSEAL)  NPSI AMERICAN STANDARD STRAIGHT PIPE THREAD INTERNAL STRAIDARD STRAIGHT PIPE THREAD INTERNAL STRAIGHT PIPE THREAD (DRYSEAL)  NPSI AMERICAN STANDARD STRAIGHT PIPE THREAD	12N	AMERICAN NATIONAL
ACME-C ACME THREADS, CENTRALIZING ACME-G ACME THREADS, GENERAL PURPOSE STUB STUB ACME THREAD ACME AMO AMERICAN STANDARD MICRO- SCOPE OBJECTIVE THREAD ANPT AERONAUTICAL TAPER PIPE THREAD BUTT AMERICAN STANDARD BUTTTESS THREAD NC AMERICAN NATIONAL COARSE THREAD SERIES NEF AMERICAN NATIONAL EXTRA- FINE THREAD SERIES NF AMERICAN NATIONAL FINE THREAD SERIES NF AMERICAN NATIONAL HOSE COUPLING AND FIRE HOSE COUPLING AND FIRE HOSE COUPLING THREADS NS SPECIAL THREADS NS SPECIAL THREAD NPS AMERICAN STANDARD STRAIGHT THREAD NPSC AMERICAN STANDARD STRAIGHT THREAD NPSF AMERICAN STANDARD INTERNAL STRAIGHT PIPE THREAD (DRYSEAL) NPSH AMERICAN STANDARD STRAIGHT PIPE THREAD FOR HOSE COUPLINGS AND NIPPLES NPSI AMERICAN STANDARD STRAIGHT PIPE THREAD INTERNAL STRAIGHT PIPE THREAD (DRYSEAL) NPSI AMERICAN STANDARD INTERNAL STRAIGHT PIPE THREAD (DRYSEAL) NPSI AMERICAN STANDARD INTERNAL STRAIGHT PIPE THREAD FOR HOSE COUPLINGS AND NIPPLES NPSI AMERICAN STANDARD INTERMEDIATE INTERNAL STRAIGHT PIPE THREAD (DRYSEAL) NPSM AMERICAN STANDARD STRAIGHT PIPE THREAD		12-THREAD SERIES
ACME-C ACME THREADS, CENTRALIZING ACME-G ACME THREADS, GENERAL PURPOSE STUB STUB ACME THREAD ACME AMO AMERICAN STANDARD MICRO- SCOPE OBJECTIVE THREAD ANPT AERONAUTICAL TAPER PIPE THREAD BUTT AMERICAN STANDARD BUTTRESS THREAD NC AMERICAN NATIONAL COARSE THREAD SERIES NF AMERICAN NATIONAL EXTRA- FINE THREAD SERIES NF AMERICAN NATIONAL FINE THREAD SERIES NGO AMERICAN NATIONAL GAS OUTLET THREAD NH AMERICAN NATIONAL HOSE COUPLING AND FIRE HOSE COUPLING THREADS NS SPECIAL THREADS OF AMERICAN NATIONAL FORM NPS AMERICAN STANDARD STRAIGHT THREAD NPSC AMERICAN STANDARD STRAIGHT PIPE THREAD IN COUPLINGS NPSF AMERICAN STANDARD STRAIGHT PIPE THREAD FOR HOSE COUPLINGS AND NIPPLES NPSI AMERICAN STANDARD STRAIGHT PIPE THREAD INTERNAL STRAIGHT PIPE THREAD (DRYSEAL) NPSI AMERICAN STANDARD INTERMEDIATE INTERNAL STRAIGHT PIPE THREAD	16N	AMERICAN NATIONAL
CENTRALIZING ACME-G ACME THREADS, GENERAL PURPOSE STUB STUB ACME THREAD ACME AMO AMERICAN STANDARD MICRO- SCOPE OBJECTIVE THREAD ANPT AERONAUTICAL TAPER PIPE THREAD BUTT AMERICAN STANDARD BUTTRESS THREAD NC AMERICAN NATIONAL COARSE THREAD SERIES NEF AMERICAN NATIONAL EXTRA- FINE THREAD SERIES NF AMERICAN NATIONAL FINE THREAD SERIES NGO AMERICAN NATIONAL GAS OUTLET THREAD NH AMERICAN NATIONAL HOSE COUPLING AND FIRE HOSE COUPLING AND FIRE HOSE COUPLING THREADS NS SPECIAL THREADS OF AMERICAN NATIONAL FORM NPS AMERICAN STANDARD STRAIGHT THREAD NPSC AMERICAN STANDARD STRAIGHT PIPE THREAD IN COUPLINGS NPSF AMERICAN STANDARD INTERNAL STRAIGHT PIPE THREAD (DRYSEAL) NPSH AMERICAN STANDARD STRAIGHT PIPE THREAD FOR HOSE COUPLINGS AND NIPPLES NPSI AMERICAN STANDARD INTERMEDIATE INTERNAL STRAIGHT PIPE THREAD (DRYSEAL) NPSM AMERICAN STANDARD STRAIGHT PIPE THREAD (DRYSEAL) NPSM AMERICAN STANDARD		16-THREAD SERIES
ACME-G ACME THREADS, GENERAL PURPOSE STUB STUB ACME THREAD ACME AMO AMERICAN STANDARD MICRO- SCOPE OBJECTIVE THREAD ANPT AERONAUTICAL TAPER PIPE THREAD BUTT AMERICAN STANDARD BUTTRESS THREAD NC AMERICAN NATIONAL COARSE THREAD SERIES NEF AMERICAN NATIONAL EXTRA- FINE THREAD SERIES NF AMERICAN NATIONAL FINE THREAD SERIES NGO AMERICAN NATIONAL HOSE COUPLING AND FIRE HOSE COUPLING THREADS NS SPECIAL THREADS NS SPECIAL THREAD NPS AMERICAN STANDARD STRAIGHT THREAD NPSC AMERICAN STANDARD STRAIGHT PIPE THREAD IN COUPLINGS NPSF AMERICAN STANDARD STRAIGHT PIPE THREAD IN COUPLINGS NPSF AMERICAN STANDARD STRAIGHT PIPE THREAD FOR HOSE COUPLINGS AND NIPPLES NPSI AMERICAN STANDARD STRAIGHT PIPE THREAD INTERNAL STRAIDARD STRAIGHT PIPE THREAD INTERMEDIATE INTERNAL STRAIGHT PIPE THREAD INTERMEDIATE INTERNAL STRAIGHT PIPE THREAD INTERMEDIATE INTERNAL STRAIGHT PIPE THREAD STRAIGHT PIPE THREAD INTERMEDIATE INTERNAL STRAIGHT PIPE THREAD STRAIGHT PIPE THREAD STRAIGHT PIPE THREAD INTERMEDIATE INTERNAL STRAIGHT PIPE THREAD	ACME-C	ACME THREADS,
PURPOSE STUB STUB ACME THREAD ACME AMO AMERICAN STANDARD MICRO- SCOPE OBJECTIVE THREAD ANPT AERONAUTICAL TAPER PIPE THREAD BUTT AMERICAN STANDARD BUTTRESS THREAD NC AMERICAN NATIONAL COARSE THREAD SERIES NEF AMERICAN NATIONAL EXTRA- FINE THREAD SERIES NF AMERICAN NATIONAL FINE THREAD SERIES NGO AMERICAN NATIONAL GAS OUTLET THREAD NH AMERICAN NATIONAL HOSE COUPLING AND FIRE HOSE COUPLING THREADS NS SPECIAL THREADS NS SPECIAL THREAD NPS AMERICAN STANDARD STRAIGHT THREAD IN COUPLINGS NPSF AMERICAN STANDARD STRAIGHT PIPE THREAD IN COUPLINGS NPSF AMERICAN STANDARD STRAIGHT PIPE THREAD IN COUPLINGS NPSH AMERICAN STANDARD STRAIGHT PIPE THREAD FOR HOSE COUPLINGS AND NIPPLES NPSI AMERICAN STANDARD STRAIGHT PIPE THREAD INTERMEDIATE INTERNAL STRAIGHT PIPE THREAD (DRYSEAL) NPSM AMERICAN STANDARD STRAIGHT PIPE THREAD (DRYSEAL) NPSM AMERICAN STANDARD STRAIGHT PIPE THREAD		CENTRALIZING
PURPOSE STUB STUB ACME THREAD ACME AMO AMERICAN STANDARD MICRO- SCOPE OBJECTIVE THREAD ANPT AERONAUTICAL TAPER PIPE THREAD BUTT AMERICAN STANDARD BUTTRESS THREAD NC AMERICAN NATIONAL COARSE THREAD SERIES NEF AMERICAN NATIONAL EXTRA- FINE THREAD SERIES NF AMERICAN NATIONAL FINE THREAD SERIES NGO AMERICAN NATIONAL GAS OUTLET THREAD NH AMERICAN NATIONAL HOSE COUPLING AND FIRE HOSE COUPLING THREADS NS SPECIAL THREADS NS SPECIAL THREAD NPS AMERICAN STANDARD STRAIGHT THREAD IN COUPLINGS NPSF AMERICAN STANDARD STRAIGHT PIPE THREAD IN COUPLINGS NPSF AMERICAN STANDARD STRAIGHT PIPE THREAD IN COUPLINGS NPSH AMERICAN STANDARD STRAIGHT PIPE THREAD FOR HOSE COUPLINGS AND NIPPLES NPSI AMERICAN STANDARD STRAIGHT PIPE THREAD INTERMEDIATE INTERNAL STRAIGHT PIPE THREAD (DRYSEAL) NPSM AMERICAN STANDARD STRAIGHT PIPE THREAD (DRYSEAL) NPSM AMERICAN STANDARD STRAIGHT PIPE THREAD	ACME-G	ACME THREADS, GENERAL
STUB ACME THREAD ACME AMO AMERICAN STANDARD MICRO- SCOPE OBJECTIVE THREAD ANPT AERONAUTICAL TAPER PIPE THREAD BUTT AMERICAN STANDARD BUTTRESS THREAD NC AMERICAN NATIONAL COARSE THREAD SERIES NEF AMERICAN NATIONAL EXTRA- FINE THREAD SERIES NF AMERICAN NATIONAL FINE THREAD SERIES NGO AMERICAN NATIONAL GAS OUTLET THREAD NH AMERICAN NATIONAL HOSE COUPLING AND FIRE HOSE COUPLING THREADS NS SPECIAL THREADS OF AMERICAN NATIONAL FORM NPS AMERICAN STANDARD STRAIGHT THREAD NPSC AMERICAN STANDARD STRAIGHT PIPE THREAD IN COUPLINGS NPSF AMERICAN STANDARD STRAIGHT PIPE THREAD IN COUPLINGS NPSH AMERICAN STANDARD STRAIGHT PIPE THREAD FOR HOSE COUPLINGS AND NIPPLES NPSH AMERICAN STANDARD STRAIGHT PIPE THREAD FOR HOSE COUPLINGS AND NIPPLES NPSH AMERICAN STANDARD STRAIGHT PIPE THREAD INTERMEDIATE INTERNAL STRAIGHT PIPE THREAD (DRYSEAL) NPSM AMERICAN STANDARD STRAIGHT PIPE THREAD		PURPOSE
ACME AMO AMERICAN STANDARD MICRO- SCOPE OBJECTIVE THREAD  ANPT AERONAUTICAL TAPER PIPE THREAD  BUTT AMERICAN STANDARD BUTTRESS THREAD  NC AMERICAN NATIONAL COARSE THREAD SERIES  NEF AMERICAN NATIONAL EXTRA- FINE THREAD SERIES  NF AMERICAN NATIONAL FINE THREAD SERIES  NGO AMERICAN NATIONAL GAS OUTLET THREAD  NH AMERICAN NATIONAL HOSE COUPLING AND FIRE HOSE COUPLING THREADS  NS SPECIAL THREADS OF AMERICAN NATIONAL FORM  NPS AMERICAN STANDARD STRAIGHT THREAD  NPSC AMERICAN STANDARD STRAIGHT PIPE THREAD  IN COUPLINGS  NPSF AMERICAN STANDARD STRAIGHT PIPE THREAD  NPSH AMERICAN STANDARD STRAIGHT PIPE THREAD FOR HOSE COUPLINGS AND NIPPLES  NPSI AMERICAN STANDARD INTERNAL STRAIGHT PIPE THREAD (DRYSEAL)  NPSH AMERICAN STANDARD INTERNAL STRAIGHT PIPE THREAD INTERMEDIATE INTERNAL STRAIGHT PIPE THREAD  (DRYSEAL)  NPSM AMERICAN STANDARD STRAIGHT PIPE THREAD	STUB	STUB ACME THREAD
ANPT AERONAUTICAL TAPER PIPE THREAD BUTT AMERICAN STANDARD BUTTRESS THREAD NC AMERICAN NATIONAL COARSE THREAD SERIES NEF AMERICAN NATIONAL EXTRA- FINE THREAD SERIES NF AMERICAN NATIONAL FINE THREAD SERIES NGO AMERICAN NATIONAL GAS OUTLET THREAD NH AMERICAN NATIONAL HOSE COUPLING AND FIRE HOSE COUPLING THREADS NS SPECIAL THREADS NS SPECIAL THREAD NPS AMERICAN STANDARD STRAIGHT THREAD NPSC AMERICAN STANDARD STRAIGHT PIPE THREAD IN COUPLINGS NPSF AMERICAN STANDARD INTERNAL STRAIGHT PIPE THREAD (DRYSEAL) NPSH AMERICAN STANDARD STRAIGHT PIPE THREAD IN COUPLINGS AND NIPPLES NPSH AMERICAN STANDARD STRAIGHT PIPE THREAD INTERNAL STRAIDARD STRAIGHT PIPE THREAD INTERNAL STRAIDARD STRAIGHT PIPE THREAD INTERMEDIATE INTERNAL STRAIGHT PIPE THREAD INTERMEDIATE INTERNAL STRAIGHT PIPE THREAD STRAIGHT PIPE THREAD INTERMEDIATE INTERNAL STRAIGHT PIPE THREAD STRAIGHT PIPE THREAD		
ANPT AERONAUTICAL TAPER PIPE THREAD BUTT AMERICAN STANDARD BUTTRESS THREAD NC AMERICAN NATIONAL COARSE THREAD SERIES NEF AMERICAN NATIONAL EXTRA- FINE THREAD SERIES NF AMERICAN NATIONAL FINE THREAD SERIES NGO AMERICAN NATIONAL GAS OUTLET THREAD NH AMERICAN NATIONAL HOSE COUPLING AND FIRE HOSE COUPLING THREADS NS SPECIAL THREADS NS SPECIAL THREAD NPS AMERICAN STANDARD STRAIGHT THREAD NPSC AMERICAN STANDARD STRAIGHT PIPE THREAD IN COUPLINGS NPSF AMERICAN STANDARD INTERNAL STRAIGHT PIPE THREAD (DRYSEAL) NPSI AMERICAN STANDARD STRAIGHT PIPE THREAD FOR HOSE COUPLINGS AND NIPPLES NPSI AMERICAN STANDARD STRAIGHT PIPE THREAD (DRYSEAL) NPSM AMERICAN STANDARD STRAIGHT PIPE THREAD (DRYSEAL) NPSM AMERICAN STANDARD STRAIGHT PIPE THREAD	AMO	AMERICAN STANDARD MICRO-
ANPT AERONAUTICAL TAPER PIPE THREAD BUTT AMERICAN STANDARD BUTTRESS THREAD NC AMERICAN NATIONAL COARSE THREAD SERIES NEF AMERICAN NATIONAL EXTRA- FINE THREAD SERIES NF AMERICAN NATIONAL FINE THREAD SERIES NGO AMERICAN NATIONAL GAS OUTLET THREAD NH AMERICAN NATIONAL HOSE COUPLING AND FIRE HOSE COUPLING THREADS NS SPECIAL THREADS OF AMERICAN NATIONAL FORM NPS AMERICAN STANDARD STRAIGHT THREAD NPSC AMERICAN STANDARD STRAIGHT PIPE THREAD IN COUPLINGS NPSF AMERICAN STANDARD INTERNAL STRAIGHT PIPE THREAD (DRYSEAL) NPSH AMERICAN STANDARD STRAIGHT PIPE THREAD FOR HOSE COUPLINGS AND NIPPLES NPSI AMERICAN STANDARD INTERMEDIATE INTERNAL STRAIGHT PIPE THREAD (DRYSEAL) NPSM AMERICAN STANDARD STRAIGHT PIPE THREAD (DRYSEAL) NPSM AMERICAN STANDARD STRAIGHT PIPE THREAD		
THREAD BUTT AMERICAN STANDARD BUTTRESS THREAD NC AMERICAN NATIONAL COARSE THREAD SERIES NEF AMERICAN NATIONAL EXTRA- FINE THREAD SERIES NF AMERICAN NATIONAL FINE THREAD SERIES NGO AMERICAN NATIONAL GAS OUTLET THREAD NH AMERICAN NATIONAL HOSE COUPLING AND FIRE HOSE COUPLING THREADS NS SPECIAL THREADS NS SPECIAL THREADS NS SPECIAL THREAD NPS AMERICAN STANDARD STRAIGHT THREAD NPSC AMERICAN STANDARD STRAIGHT PIPE THREAD IN COUPLINGS NPSF AMERICAN STANDARD INTERNAL STRAIGHT PIPE THREAD (DRYSEAL) NPSH AMERICAN STANDARD STRAIGHT PIPE THREAD FOR HOSE COUPLINGS AND NIPPLES NPSI AMERICAN STANDARD INTERMEDIATE INTERNAL STRAIGHT PIPE THREAD (DRYSEAL) NPSM AMERICAN STANDARD STRAIGHT PIPE THREAD (DRYSEAL) NPSM AMERICAN STANDARD STRAIGHT PIPE THREAD	ANPT	
BUTT AMERICAN STANDARD BUTTRESS THREAD  NC AMERICAN NATIONAL COARSE THREAD SERIES  NEF AMERICAN NATIONAL EXTRA- FINE THREAD SERIES  NF AMERICAN NATIONAL FINE THREAD SERIES  NGO AMERICAN NATIONAL GAS OUTLET THREAD  NH AMERICAN NATIONAL HOSE COUPLING AND FIRE HOSE COUPLING THREADS  NS SPECIAL THREADS  NS SPECIAL THREADS  NPS AMERICAN STANDARD STRAIGHT THREAD  NPSC AMERICAN STANDARD STRAIGHT PIPE THREAD IN COUPLINGS  NPSF AMERICAN STANDARD INTERNAL STRAIGHT PIPE THREAD (DRYSEAL)  NPSH AMERICAN STANDARD STRAIGHT PIPE THREAD FOR HOSE COUPLINGS AND NIPPLES  NPSI AMERICAN STANDARD INTERMEDIATE INTERNAL STRAIGHT PIPE THREAD (DRYSEAL)  NPSM AMERICAN STANDARD STRAIGHT PIPE THREAD STRAIGHT PIPE THREAD (DRYSEAL)  NPSM AMERICAN STANDARD STRAIGHT PIPE THREAD	7441	
NC AMERICAN NATIONAL COARSE THREAD SERIES  NEF AMERICAN NATIONAL EXTRA- FINE THREAD SERIES  NF AMERICAN NATIONAL FINE THREAD SERIES  NGO AMERICAN NATIONAL GAS OUTLET THREAD  NH AMERICAN NATIONAL HOSE COUPLING AND FIRE HOSE COUPLING THREADS  NS SPECIAL THREADS  NS SPECIAL THREADS  NPS AMERICAN NATIONAL FORM  NPS AMERICAN STANDARD STRAIGHT THREAD  IN COUPLINGS  NPSF AMERICAN STANDARD INTERNAL STRAIGHT PIPE THREAD (DRYSEAL)  NPSH AMERICAN STANDARD STRAIGHT PIPE THREAD FOR HOSE COUPLINGS AND NIPPLES  NPSI AMERICAN STANDARD INTERNAL STRAIGHT PIPE THREAD (DRYSEAL)  NPSI AMERICAN STANDARD INTERMEDIATE INTERNAL STRAIGHT PIPE THREAD (DRYSEAL)  NPSM AMERICAN STANDARD STRAIGHT PIPE THREAD STRAIGHT PIPE THREAD	BUTT	· · · · · · · · · · · · · · · · · · ·
NC AMERICAN NATIONAL COARSE THREAD SERIES  NEF AMERICAN NATIONAL EXTRA- FINE THREAD SERIES  NF AMERICAN NATIONAL FINE THREAD SERIES  NGO AMERICAN NATIONAL GAS OUTLET THREAD  NH AMERICAN NATIONAL HOSE COUPLING AND FIRE HOSE COUPLING THREADS  NS SPECIAL THREADS OF AMERICAN NATIONAL FORM  NPS AMERICAN STANDARD STRAIGHT THREAD  NPSC AMERICAN STANDARD IN COUPLINGS  NPSF AMERICAN STANDARD INTERNAL STRAIGHT PIPE THREAD (DRYSEAL)  NPSH AMERICAN STANDARD STRAIGHT PIPE THREAD FOR HOSE COUPLINGS AND NIPPLES  NPSI AMERICAN STANDARD INTERMEDIATE INTERNAL STRAIGHT PIPE THREAD (DRYSEAL)  NPSM AMERICAN STANDARD STRAIGHT PIPE THREAD (DRYSEAL)  NPSM AMERICAN STANDARD STRAIGHT PIPE THREAD	50.1	
THREAD SERIES  NEF AMERICAN NATIONAL EXTRA- FINE THREAD SERIES  NF AMERICAN NATIONAL FINE THREAD SERIES  NGO AMERICAN NATIONAL GAS OUTLET THREAD  NH AMERICAN NATIONAL HOSE COUPLING AND FIRE HOSE COUPLING THREADS  NS SPECIAL THREADS  NS SPECIAL THREADS OF AMERICAN NATIONAL FORM  NPS AMERICAN STANDARD STRAIGHT THREAD  NPSC AMERICAN STANDARD IN COUPLINGS  NPSF AMERICAN STANDARD INTERNAL STRAIGHT PIPE THREAD (DRYSEAL)  NPSH AMERICAN STANDARD STRAIGHT PIPE THREAD FOR HOSE COUPLINGS AND NIPPLES  NPSI AMERICAN STANDARD INTERMEDIATE INTERNAL STRAIGHT PIPE THREAD (DRYSEAL)  NPSM AMERICAN STANDARD STRAIGHT PIPE THREAD (STRAIGHT PIPE THREAD (DRYSEAL)  NPSM AMERICAN STANDARD STRAIGHT PIPE THREAD	NC	
NEF AMERICAN NATIONAL EXTRA- FINE THREAD SERIES  NF AMERICAN NATIONAL FINE THREAD SERIES  NGO AMERICAN NATIONAL GAS OUTLET THREAD  NH AMERICAN NATIONAL HOSE COUPLING AND FIRE HOSE COUPLING THREADS  NS SPECIAL THREADS  NS SPECIAL THREADS OF AMERICAN NATIONAL FORM  NPS AMERICAN STANDARD STRAIGHT THREAD  NPSC AMERICAN STANDARD IN COUPLINGS  NPSF AMERICAN STANDARD INTERNAL STRAIGHT PIPE THREAD (DRYSEAL)  NPSH AMERICAN STANDARD STRAIGHT PIPE THREAD FOR HOSE COUPLINGS AND NIPPLES  NPSI AMERICAN STANDARD INTERMEDIATE INTERNAL STRAIGHT PIPE THREAD (DRYSEAL)  NPSM AMERICAN STANDARD STRAIGHT PIPE THREAD (DRYSEAL)  NPSM AMERICAN STANDARD STRAIGHT PIPE THREAD	110	
FINE THREAD SERIES  NF AMERICAN NATIONAL FINE THREAD SERIES  NGO AMERICAN NATIONAL GAS OUTLET THREAD  NH AMERICAN NATIONAL HOSE COUPLING AND FIRE HOSE COUPLING THREADS  NS SPECIAL THREADS OF AMERICAN NATIONAL FORM  NPS AMERICAN STANDARD STRAIGHT THREAD  NPSC AMERICAN STANDARD STRAIGHT PIPE THREAD IN COUPLINGS  NPSF AMERICAN STANDARD INTERNAL STRAIGHT PIPE THREAD (DRYSEAL)  NPSH AMERICAN STANDARD STRAIGHT PIPE THREAD FOR HOSE COUPLINGS AND NIPPLES  NPSI AMERICAN STANDARD INTERMEDIATE INTERNAL STRAIGHT PIPE THREAD (DRYSEAL)  NPSM AMERICAN STANDARD STRAIGHT PIPE THREAD STRAIGHT PIPE THREAD	NEE	
NF AMERICAN NATIONAL FINE THREAD SERIES  NGO AMERICAN NATIONAL GAS OUTLET THREAD  NH AMERICAN NATIONAL HOSE COUPLING AND FIRE HOSE COUPLING THREADS  NS SPECIAL THREADS OF AMERICAN NATIONAL FORM  NPS AMERICAN STANDARD STRAIGHT THREAD  NPSC AMERICAN STANDARD IN COUPLINGS  NPSF AMERICAN STANDARD INTERNAL STRAIGHT PIPE THREAD (DRYSEAL)  NPSH AMERICAN STANDARD STRAIGHT PIPE THREAD FOR HOSE COUPLINGS AND NIPPLES  NPSI AMERICAN STANDARD INTERMEDIATE INTERNAL STRAIGHT PIPE THREAD (DRYSEAL)  NPSM AMERICAN STANDARD STRAIGHT PIPE THREAD (DRYSEAL)  NPSM AMERICAN STANDARD STRAIGHT PIPE THREAD	INCI	
THREAD SERIES  NGO AMERICAN NATIONAL GAS OUTLET THREAD  NH AMERICAN NATIONAL HOSE COUPLING AND FIRE HOSE COUPLING THREADS  NS SPECIAL THREADS OF AMERICAN NATIONAL FORM  NPS AMERICAN STANDARD STRAIGHT THREAD  NPSC AMERICAN STANDARD IN COUPLINGS  NPSF AMERICAN STANDARD INTERNAL STRAIGHT PIPE THREAD (DRYSEAL)  NPSH AMERICAN STANDARD STRAIGHT PIPE THREAD FOR HOSE COUPLINGS AND NIPPLES  NPSI AMERICAN STANDARD INTERMEDIATE INTERNAL STRAIGHT PIPE THREAD (DRYSEAL)  NPSM AMERICAN STANDARD STRAIGHT PIPE THREAD (DRYSEAL)  NPSM AMERICAN STANDARD STRAIGHT PIPE THREAD	NE	
NGO AMERICAN NATIONAL GAS OUTLET THREAD  NH AMERICAN NATIONAL HOSE COUPLING AND FIRE HOSE COUPLING THREADS  NS SPECIAL THREADS OF AMERICAN NATIONAL FORM  NPS AMERICAN STANDARD STRAIGHT THREAD  NPSC AMERICAN STANDARD STRAIGHT PIPE THREAD IN COUPLINGS  NPSF AMERICAN STANDARD INTERNAL STRAIGHT PIPE THREAD (DRYSEAL)  NPSH AMERICAN STANDARD STRAIGHT PIPE THREAD FOR HOSE COUPLINGS AND NIPPLES  NPSI AMERICAN STANDARD INTERMEDIATE INTERNAL STRAIGHT PIPE THREAD (DRYSEAL)  NPSM AMERICAN STANDARD STRAIGHT PIPE THREAD STRAIGHT PIPE THREAD	INI	
OUTLET THREAD  NH AMERICAN NATIONAL HOSE COUPLING AND FIRE HOSE COUPLING THREADS  NS SPECIAL THREADS OF AMERICAN NATIONAL FORM  NPS AMERICAN STANDARD STRAIGHT THREAD  NPSC AMERICAN STANDARD STRAIGHT PIPE THREAD IN COUPLINGS  NPSF AMERICAN STANDARD INTERNAL STRAIGHT PIPE THREAD (DRYSEAL)  NPSH AMERICAN STANDARD STRAIGHT PIPE THREAD FOR HOSE COUPLINGS AND NIPPLES  NPSI AMERICAN STANDARD INTERMEDIATE INTERNAL STRAIGHT PIPE THREAD (DRYSEAL)  NPSM AMERICAN STANDARD STRAIGHT PIPE THREAD STRAIGHT PIPE THREAD	NGO	
NH AMERICAN NATIONAL HOSE COUPLING AND FIRE HOSE COUPLING THREADS  NS SPECIAL THREADS OF AMERICAN NATIONAL FORM  NPS AMERICAN STANDARD STRAIGHT THREAD  NPSC AMERICAN STANDARD STRAIGHT PIPE THREAD IN COUPLINGS  NPSF AMERICAN STANDARD INTERNAL STRAIGHT PIPE THREAD (DRYSEAL)  NPSH AMERICAN STANDARD STRAIGHT PIPE THREAD FOR HOSE COUPLINGS AND NIPPLES  NPSI AMERICAN STANDARD INTERMEDIATE INTERNAL STRAIGHT PIPE THREAD (DRYSEAL)  NPSM AMERICAN STANDARD STRAIGHT PIPE THREAD STRAIGHT PIPE THREAD	NGO	
COUPLING AND FIRE HOSE COUPLING THREADS  NS SPECIAL THREADS OF AMERICAN NATIONAL FORM  NPS AMERICAN STANDARD STRAIGHT THREAD  NPSC AMERICAN STANDARD STRAIGHT PIPE THREAD IN COUPLINGS  NPSF AMERICAN STANDARD INTERNAL STRAIGHT PIPE THREAD (DRYSEAL)  NPSH AMERICAN STANDARD STRAIGHT PIPE THREAD FOR HOSE COUPLINGS AND NIPPLES  NPSI AMERICAN STANDARD INTERMEDIATE INTERNAL STRAIGHT PIPE THREAD (DRYSEAL)  NPSM AMERICAN STANDARD STRAIGHT PIPE THREAD STRAIGHT PIPE THREAD	NIL	
NS SPECIAL THREADS NS SPECIAL THREADS OF AMERICAN NATIONAL FORM NPS AMERICAN STANDARD STRAIGHT THREAD NPSC AMERICAN STANDARD STRAIGHT PIPE THREAD IN COUPLINGS NPSF AMERICAN STANDARD INTERNAL STRAIGHT PIPE THREAD (DRYSEAL) NPSH AMERICAN STANDARD STRAIGHT PIPE THREAD FOR HOSE COUPLINGS AND NIPPLES NPSI AMERICAN STANDARD INTERMEDIATE INTERNAL STRAIGHT PIPE THREAD (DRYSEAL) NPSM AMERICAN STANDARD STRAIGHT PIPE THREAD STRAIGHT PIPE THREAD	INII	
NS SPECIAL THREADS OF AMERICAN NATIONAL FORM  NPS AMERICAN STANDARD STRAIGHT THREAD  NPSC AMERICAN STANDARD STRAIGHT PIPE THREAD IN COUPLINGS  NPSF AMERICAN STANDARD INTERNAL STRAIGHT PIPE THREAD (DRYSEAL)  NPSH AMERICAN STANDARD STRAIGHT PIPE THREAD FOR HOSE COUPLINGS AND NIPPLES  NPSI AMERICAN STANDARD INTERMEDIATE INTERNAL STRAIGHT PIPE THREAD (DRYSEAL)  NPSM AMERICAN STANDARD STRAIGHT PIPE THREAD STRAIGHT PIPE THREAD		
AMERICAN NATIONAL FORM  NPS AMERICAN STANDARD  STRAIGHT THREAD  NPSC AMERICAN STANDARD  STRAIGHT PIPE THREAD  IN COUPLINGS  NPSF AMERICAN STANDARD  INTERNAL STRAIGHT PIPE  THREAD (DRYSEAL)  NPSH AMERICAN STANDARD  STRAIGHT PIPE THREAD FOR  HOSE COUPLINGS AND NIPPLES  NPSI AMERICAN STANDARD  INTERMEDIATE INTERNAL  STRAIGHT PIPE THREAD  (DRYSEAL)  NPSM AMERICAN STANDARD  STRAIGHT PIPE THREAD  STRAIGHT PIPE THREAD	NIC	
NPS AMERICAN STANDARD STRAIGHT THREAD  NPSC AMERICAN STANDARD STRAIGHT PIPE THREAD IN COUPLINGS  NPSF AMERICAN STANDARD INTERNAL STRAIGHT PIPE THREAD (DRYSEAL)  NPSH AMERICAN STANDARD STRAIGHT PIPE THREAD FOR HOSE COUPLINGS AND NIPPLES  NPSI AMERICAN STANDARD INTERMEDIATE INTERNAL STRAIGHT PIPE THREAD (DRYSEAL)  NPSM AMERICAN STANDARD STRAIGHT PIPE THREAD STRAIGHT PIPE THREAD	INO	
STRAIGHT THREAD  NPSC AMERICAN STANDARD STRAIGHT PIPE THREAD IN COUPLINGS  NPSF AMERICAN STANDARD INTERNAL STRAIGHT PIPE THREAD (DRYSEAL)  NPSH AMERICAN STANDARD STRAIGHT PIPE THREAD FOR HOSE COUPLINGS AND NIPPLES  NPSI AMERICAN STANDARD INTERMEDIATE INTERNAL STRAIGHT PIPE THREAD (DRYSEAL)  NPSM AMERICAN STANDARD STRAIGHT PIPE THREAD	NDC	
NPSC AMERICAN STANDARD STRAIGHT PIPE THREAD IN COUPLINGS  NPSF AMERICAN STANDARD INTERNAL STRAIGHT PIPE THREAD (DRYSEAL)  NPSH AMERICAN STANDARD STRAIGHT PIPE THREAD FOR HOSE COUPLINGS AND NIPPLES  NPSI AMERICAN STANDARD INTERMEDIATE INTERNAL STRAIGHT PIPE THREAD (DRYSEAL)  NPSM AMERICAN STANDARD STRAIGHT PIPE THREAD STRAIGHT PIPE THREAD	INFO	
STRAIGHT PIPE THREAD IN COUPLINGS  NPSF  AMERICAN STANDARD INTERNAL STRAIGHT PIPE THREAD (DRYSEAL)  NPSH  AMERICAN STANDARD STRAIGHT PIPE THREAD FOR HOSE COUPLINGS AND NIPPLES  NPSI  AMERICAN STANDARD INTERMEDIATE INTERNAL STRAIGHT PIPE THREAD (DRYSEAL)  NPSM  AMERICAN STANDARD STRAIGHT PIPE THREAD	NDSC	
IN COUPLINGS  NPSF AMERICAN STANDARD INTERNAL STRAIGHT PIPE THREAD (DRYSEAL)  NPSH AMERICAN STANDARD STRAIGHT PIPE THREAD FOR HOSE COUPLINGS AND NIPPLES  NPSI AMERICAN STANDARD INTERMEDIATE INTERNAL STRAIGHT PIPE THREAD (DRYSEAL)  NPSM AMERICAN STANDARD STRAIGHT PIPE THREAD	INFOL	
NPSF AMERICAN STANDARD INTERNAL STRAIGHT PIPE THREAD (DRYSEAL)  NPSH AMERICAN STANDARD STRAIGHT PIPE THREAD FOR HOSE COUPLINGS AND NIPPLES  NPSI AMERICAN STANDARD INTERMEDIATE INTERNAL STRAIGHT PIPE THREAD (DRYSEAL)  NPSM AMERICAN STANDARD STRAIGHT PIPE THREAD		
INTERNAL STRAIGHT PIPE THREAD (DRYSEAL)  NPSH AMERICAN STANDARD STRAIGHT PIPE THREAD FOR HOSE COUPLINGS AND NIPPLES  NPSI AMERICAN STANDARD INTERMEDIATE INTERNAL STRAIGHT PIPE THREAD (DRYSEAL)  NPSM AMERICAN STANDARD STRAIGHT PIPE THREAD	NDCE	
THREAD (DRYSEAL)  NPSH AMERICAN STANDARD STRAIGHT PIPE THREAD FOR HOSE COUPLINGS AND NIPPLES  NPSI AMERICAN STANDARD INTERMEDIATE INTERNAL STRAIGHT PIPE THREAD (DRYSEAL)  NPSM AMERICAN STANDARD STRAIGHT PIPE THREAD	INPSF	
NPSH AMERICAN STANDARD STRAIGHT PIPE THREAD FOR HOSE COUPLINGS AND NIPPLES NPSI AMERICAN STANDARD INTERMEDIATE INTERNAL STRAIGHT PIPE THREAD (DRYSEAL) NPSM AMERICAN STANDARD STRAIGHT PIPE THREAD		
STRAIGHT PIPE THREAD FOR HOSE COUPLINGS AND NIPPLES NPSI AMERICAN STANDARD INTERMEDIATE INTERNAL STRAIGHT PIPE THREAD (DRYSEAL) NPSM AMERICAN STANDARD STRAIGHT PIPE THREAD	NDCLL	,
HOSE COUPLINGS AND NIPPLES  NPSI AMERICAN STANDARD INTERMEDIATE INTERNAL STRAIGHT PIPE THREAD (DRYSEAL)  NPSM AMERICAN STANDARD STRAIGHT PIPE THREAD	NPSH	
NPSI AMERICAN STANDARD INTERMEDIATE INTERNAL STRAIGHT PIPE THREAD (DRYSEAL) NPSM AMERICAN STANDARD STRAIGHT PIPE THREAD		
INTERMEDIATE INTERNAL STRAIGHT PIPE THREAD (DRYSEAL) NPSM AMERICAN STANDARD STRAIGHT PIPE THREAD	NEG	
STRAIGHT PIPE THREAD (DRYSEAL) NPSM AMERICAN STANDARD STRAIGHT PIPE THREAD	NPSI	
(DRYSEAL) NPSM AMERICAN STANDARD STRAIGHT PIPE THREAD		
NPSM AMERICAN STANDARD STRAIGHT PIPE THREAD		
STRAIGHT PIPE THREAD		
	NPSM	
FOR MECHANICAL JOINTS		
1 OIX WILDI I/ (1410/ LE 001141 0		FOR MECHANICAL JOINTS

NPSL	AMERICAN STANDARD STRAIGHT PIPE THREAD FOR
	LOCKNUTS AND LOCKNUT PIPE
NOT	THREADS
NPT	AMERICAN STANDARD TAPER PIPE THREAD
NPTF	AMERICAN STANDARD TAPER
NOTO	PIPE THREAD (DRYSEAL)
NPTR	AMERICAN STANDARD TAPER FINE THREAD FOR RAILING
	FITTINGS
PTF-SAE	DRYSEAL SAE SHORT
SHORT	EXTERNAL TAPER PIPE THREAD
PTF-SAE SPL	DRYSEAL SAE SPECIAL SHORT
SHORT	EXTERNAL TAPER PIPE THREAD
PTF-SAE SPL	DRYSEAL SAE SPECIAL EXTRA
EXTRA	SHORT EXTERNAL TAPER PIPE
SHORT	THREAD
RMS	AMERICAN STANDARD SURVEYING INSTRUMENT
	MOUNTING THREAD
TEC	AMERICAN TRUNICATED WHITWORTH COARSE THREAD
	SERIES
TWF	AMERICAN TRUNCATED
	WHITWORTH FINE THREAD SERIES
TWS	AMERICAN TRUNCATED
	WHITWORTH SPECIAL DIAMETER-PITCH COMBINA-
	TION
UN	UNIFIED SELECTED DIAMETER
	-PITCH COMBINATION OF THE 8-,12-, AND 16-THREAD
	SERIES
UNC	UNIFIED COARSE THREAD SERIES
UNEF	UNIFIED SELECTED DIAMETER
	-PITCH COMBINATIONS OF THE EXTRA-FINE THREAD
	SERIES
UNF	UNIFIED FINE THREAD SERIES
UNJ	UNIFIED FORM (CONTROLLED
UNS	ROOT RADIUS) UNIFIED THREADS OF SPECIAL
JINO	DIAMETERS, PITCHES, AND
	LENGTHS OF ENGAGEMENT

### Figure 26- Thread Series Designations

THE INFORMATION HEREON IS THE PROPERTY OF CATERPILLAR INC. AND/OR ITS SUBSIDIARIES. WITHOUT WRITTEN PERMISSION, ANY COPYING, TRANSMITTAL TO OTHERS, AND ANY USE EXCEPT THAT FOR WHICH IT IS LOANED, IS PROHIBITED.			
	DATE	CHG NO	NUMBER
INTERPRETATION AND TOLERANCES - DRAWING	24 MAY 2018	57	1E0011





#### 6.20 Kitting Name Abbreviations and Acronyms

Kit Part Name	Description
BEARING KT-DT BG	Bevel and Gear Bearing
BEARING KT-DT D	Direct Drive Transmission
	Overhaul
BEARING KT-DT DG	Differential and Gear
	Overhaul
BEARING KT-DT F	Final Drive Overhaul (TTT)
BEARING KT-DT FB	Front Wheel and Brake
	Overhaul
BEARING KT-DT FW	Final Drive and Wheel
	Overhaul
BEARING KT-DT IF	Input Transfer Gear Bearing
	Overhaul
BEARING KT-DT OP	Planetary Axle Arrangement
	(Oscillating Axle)
BEARING KT-DT OT	Transmission Output
	Transfer Gear Bearing
	Overhaul
BEARING KT-DT PF	Planetary Axle Arrangement
DEADING ICT DT DO	(Fixed Axle)
BEARING KT-DT PS	Power Shift Transmission
DEADING KT DT D	Overhaul
BEARING KT-DT R BEARING KT-DT TC	Retarder Bearing Torque Converter Overhaul
BEARING KI-DI IC	(for T/C and/or pump)
BEARING KT-DT WF	Wheel/Final Drive/Brake
BRAKE KT-DT EW	Brake Overhaul Kit without
BRAKE KI-DI EW	Plates – Extended Life for
	Wheel Machine
BRAKE KT-DT FB	Front Wheel Brake without
	Plates
BRAKE KT-DT FBP	Front Wheel Brake with
	Plates
BRAKE KT-DT FBPX	Front Brake with Plates -
	Extended Life
BRAKE KT-DT FBX	Front Brake Overhaul Kit
	without Plates - Extended
	Life
BRAKE KT-DT PEW	Brake Overhaul Kit with
	Plates – Extended Life for
DD 41/F 1/T	Wheel Machine
BRAKE KT-DT PST	Brake Overhaul Kit with
	Plates – Standard Life for
DRAKE KT DT DOW	Track Type Machine
BRAKE KT-DT PSW	Brake Overhaul Kit with Plates – Standard Life for
BRAKE KT-DT RB	Wheel Machine Rear Wheel Brake without
DIVANE KI-DI KB	Plates
BRAKE KT-DT RBP	Rear Wheel Brake with
DIVINE IN DI INDI	Plates
BRAKE KT-DT RBPX	Rear Brake with Plates -
	Extended Life

BRAKE KT-DT RBX	Rear Brake Overhaul Kit without Plates - Extended
BRAKE KT-DT ST	Life Brake Overhaul Kit without Plates – Standard Life for
BRAKE KT-DT SW	Track Type Machine Brake Overhaul Kit without Plates – Standard Life for
BRAKE KT-DT TTB	Wheel Machine Track Type Brake without plates - Standard Life
BRAKE KT-DT TTBP	Track Type Brake with Plates - Standard Life
ENGINE KT-BCF	Brakesaver In-Frame Overhaul
ENGINE KT-BRONZE ENGINE KT-MAJOR ENGINE KT-OVHL ENGINE KT-SILVER	Bronze Overhaul Kit Major Overhaul Kit Engine Overhaul Kit Silver Overhaul Kit
ENGINE KT-TOPEND GASKET KT-ACL GASKET KT-AEV GASKET KT-AIR	Top End Overhaul Kit After cooler and Lines Arrangement Engine Veh Air Compressor
GASKET KT-AWP GASKET KT-BCL GASKET KT-BS GASKET KT-CL	Auxiliary Water Pump Brakesaver cooler and lines Brakesaver Central and Lower Structure
GASKET KT-DT BGG GASKET KT-DT CAP	Bevel and Gear Gasket Kit Transmission Case & Parts Overhaul
GASKET KT-DT DDG	Direct Drive Transmission Gasket Overhaul Kit
GASKET KT-DT HCG GASKET KT-DT HCP GASKET KT-DT HCL	Hydrostatic Control Hydrostatic Case Group Hydrostatic Case & Lines Gasket Kit
GASKET KT-DT HLC GASKET KT-DT HPC GASKET KT-DT HPU	Hydrostatic Control Lines Power Control Valve Cyliner Hydrostatic Transmission Overhaul
GASKET KT-DT HRV GASKET KT-DT ITG	Replenishmenet Valve Input Transfer Gear Overhaul
GASKET KT-DT OTG GASKET KT-DT PIS	Output Transfer Gear Hydrostatic Piston Motor Gasket
GASKET KT-DT POS GASKET KT-DT THC	Powertrain Oil System Transmission Hydraulic Control
GASKET KT-DT TMS	Transmission Mainfold/screen
GASKET KT-DT TOF GASKET KT-DT TOP	Transmission Oil Filter Transmission Oil Pump Overhaul

THE INFORMATION HEREON IS THE PROPERTY OF CATERPILLAR INC. AND/OR ITS SUBSIDIARIES. WITHOUT WRITTEN PERMISSION, ANY COPYING, TRANSMITTAL TO OTHERS, AND ANY USE EXCEPT THAT FOR WHICH IT IS LOANED, IS PROHIBITED.

INTERPRETATION AND TOLERANCES - DRAWING

DATE 24 MAY 2018

CHG NO NUMBER 1E0011





GASKET KT-DT PLA	Planetary Gasket
	,
GASKET KT-DT RC	Rear Clutch
GASKET KT-DT TCG	Torque Converter Overhaul
GASKET KT-DT TXG	Torque Converter Overhaul
GASKET KT-EXC	Heat Exchanger
GASKET KT-EXP	Expansion Tank
GASKET KT-F	Fuel System
GASKET KT-FND	Fan Drive
GASKET KT-FPR	Fuel Pump Rebuild
GASKET KT-FS	Front Structure
GASKET KT-LS	Lower Structure
GASKET KT-MAN	Manifold
GASKET KT-MCH	Multiple Cylinder Head
GASKET KT-OCL	Oil Cooler and Lines
GASKET KT-OL	Oil Lines
GASKET KT-OP	Oil Pump
GASKET KT-POF	Power Take Off
•	F: 07

GASKET KT-RAP	Auxiliary Water Pump
	Rebuild
GASKET KT-RCH	Rebuild Cylinder Head
GASKET KT-RS	Rear Structure
GASKET KT-RWP	Water Pump Rebuild
GASKET KT-SCH	Single Cylinder Head
GASKET KT-SCL	Single Cylinder Liner
GASKET KT-SFI	Single Fuel Injector
GASKET KT-T	Turbocharger
GASKET KT-WLG	Water Lines Group
GASKET KT-WP	Water Pump
SEAL KT-HCYL 1	Standard Size Bore
SEAL KT-HCYL 2	Oversize 2 Bore
SEAL KT-HCYL 3	Oversize 3 Bore
SEAL KT-PC	Prechamber Rebuild

Figure 27 - Kitting Abbreviations

#### 7.0 REFERENCES

Caterpillar Specifications 1E0008, 1E0009, 1E0010, 1E0010A, 1E0012, 1E0099, 1E0198, 1E0421, 1E0500, 1E2122, 1E2177, 1E2315,

1E2324, 1E2325, 1E2347, 1E2650, 1E2655, 1E4467,

1E4617, 1E4966, 1E4972

ASME Y14.3

Caterpillar: Confidential Green