MTU Detroit Diesel

856 Shipping Notice / Manifest

VERSION: ANSI ASC X12 4010

Created: March 14, 2007
Modified: Sept 30, 2009

Change History

Date	Version	Description of Changes
14th March 2007	V01	First release for MTU-DD based on DDC specification version ANSI ASC X12 3040.
09th November 2007	V02	1. Inserted the Change History page. 2. Improvement on TradeWeb form and alignment of form to specification in revised list of accepted UOM (Ref: ENH-MM66).
08th December 2007	V02	Modification to Appendix A
18th July 2008	V03	Inserted new segments for Consolidated Shipments and GTS 10+2 requirements. (KH)
06th August 2008	V03	Added comments for consolidated shipments (N1)
06th November 2008	V03	1. Updated Port Codes (R404) 2. Added List of Country Codes as Appendix B 3. Added note for Consolidators regarding Supplier Code (N101 = SU)
10th November 2008	V04	MTU-DD Phase B Requirements - add reference PO item number (PRF05) - add serial number for Engines (REF)
14th January 2009	V04	MTU-DD Phase B Aligned N104 values for Ship-to Party (ST/MA) with DD SAP Plant/SLoc
25th February 2009	V04	MTU-DD Phase B Corrected the EDI structure for HL - Order Level on page 4
30th March 2009	V04	MTU-DD Phase B Corrected the typo on pages 15-16 and 27-28 on the Plant/SLoc code for Menlo (N104)
30th Sept 2009	V04	HD 1387999 - Supplier The Mitchel Group, Inc - 105162 ASN SID Number 1. Changed the maximum characters of Shipment Identification (BSN02) 2. Added a note not to use '/' character in the following fields: ▪ BSN02 {page 5} ▪ TD303 {page 13} ▪ REF02 (BM/CN/AW) {page 14} ▪ REF02 (BM/SI) {page 26} 3. Changed the maximum characters of the following fields: ▪ REF02 (BM/CN/AW) {page 14} ▪ PRF01 & PRF05 {page 24} ▪ REF02 (PK/IK/BM/SI/SE) {page 26} 4. CLD segment is made Optional {page 27} 5. Added a NOTE on unique PO number {page 24}

856 Shipping Notice / Manifest

This document contains the format and establishes the data contents of the Ship Notice/Manifest Transaction Set (856) for use within the context of an Electronic Data Interchange (EDI) environment.

The transaction set can be used to list the contents of a shipment of goods as well as additional information relating to the shipment, such as order information, product description, physical characteristics and carrier information. The transaction set enables the sender to describe the contents and configuration of a shipment in various levels of detail. The sender of this transaction is the organization responsible for detailing and communicating the contents of a shipment, or shipments, to one or more receivers of the transaction set. The receiver of this transaction set can be any organization having an interest in the contents of a shipment or information about the contents of a shipment. Suppliers must supply the Advanced Ship Notice to MTU DD within 30 minutes of the shipment leaving the plant.

Enhance the existing 856 to allow consolidation of shipments that originate overseas. The current design of 856 from domestic vendors will not be impacted, meaning the bill of lading; vendor and invoice are stored in the shipment segment, with the materials in the item segment. For example, one domestic inbound could have multiple materials from the same vendor. The enhanced 856 functionality will allow consolidation where the shipment segment will now contain the master bill of lading and partner functions and the inbound items will contain house bill of ladings, vendor numbers and other material specific data (ex. invoice). For example, one consolidated 856 could have multiple materials from multiple vendors.

Segments added from original 856 to allow consolidation:

V1	Vessel Identification
R4	Port or Terminal
DTM	Date/Time Reference

Updated specifications are listed in full below.

Heading:

Seg. ID	Name	Req. Des.	Max. Use	Notes and Comments
BSN	Beginning Segment For Ship Notice	M	1	
DTM	Date/Time Reference	M	1	

Detail:

Seg. ID	Name	Req. Des.	Max. Use	Notes and Comments
	LOOP START (200000) Max Loop			
HL	Hierarchical Level - **Shipment**	M	1	
MEA	Measurement	M	40	
TD1	Carrier Details (Quantity and Weight)	M	20	
TD5	Carrier Details (Routing Sequence/Transit Time)	M	1	
TD3	Carrier Details (Equipment)	M	1	
REF	Reference Numbers	M/O	>1	
	SUBLOOP START (200) Max Loop			
N1	Name	M	4	
	SUBLOOP END			
	SUBLOOP START (>1) Max Loop			
V1	Vessel Identification	O	1	
R4	Port or Terminal	O	>1	
	SUBLOOP END			
	SUBLOOP START (200000) Max Loop			
HL	Hierarchical Level - **Order**	M	1	
LIN	Item Identification	M	1	
SN1	Item Detail (Shipment)	M	1	
PRF	Purchase Order Reference	M	1	
PID	Product/Item Description	C	200	
REF	Reference Numbers	M/O	1	
	SUBLOOP START (200) Max Loop			
CLD	Load Detail	O	3	
	SUBLOOP END			
	SUBLOOP START (200) Max Loop			
N1	Name	O	4	
	SUBLOOP END			
	SUBLOOP START (>1) Max Loop			
DTM	Date/Time Reference	O	2	
	SUBLOOP END			
	SUBLOOP END			
	LOOP END			

Summary:

Seg. ID	Name	Req. Des.	Max. Use	Notes and Comments
CTT	Transaction Totals	M	1	

Segment : **BSN** **Beginning Segment for Ship Notice**
Level : Header
Loop : N/A
Usage : Mandatory
Max Use : 1
Purpose : To transmit identifying numbers, dates and other basic data relating to the transaction set.
Syntax : 1) If BSN07 is present, BSN06 is required.
Semantic : 1) BSN03 is the date the shipment transaction set is created.
2) BSN04 is the time the shipment transaction set is created.
Notes : **The date and time are the date and local time of the creation of the transaction.**
When canceling an ASN, send the same SID number as the ASN to be cancelled.
Example : BSN*00*926758*20040622*1126
BSN*01*926758*20040622*1126

Data Element Summary

REF. DES.	MTU-DD USAGE	NAME	ATTRIBUTES		
BSN01	**X**	**Transaction Set Purpose Code** Code identifying purpose of transaction set. **00 Original** **01 Cancel**	**M**	**ID**	**2/2**
BSN02	**X**	**Shipment Identification** A unique control number assigned by the original shipper to identify a specific shipment. **Unique supplier-assigned number that is not repeated (when BSN01 = "00") for the same reference Purchasing document within the calendar year of the Shipping Date (don't use '/' character)**	**M**	**AN**	**1/16**
BSN03	**X**	**Date** Date the shipment transaction set is created (CCYYMMDD).	**M**	**DT**	**8/8**
BSN04	**X**	**Time** Time the shipment transaction set is created. Time expressed in 24-hour clock time as follows: HHMM	**M**	**TM**	**4/8**
BSN05	**Not Used**	**Hierarchical Structure Code** Code indicating the hierarchical application structure of a transaction set that utilizes the HL segment to define the structure of the transaction set.	**O**	**ID**	**4/4**
BSN06	**Not Used**	**Transaction Type Code** Code specifying the type of transaction.	**C**	**ID**	**2/2**
BSN07	**Not Used**	**Status Reason Code** Code indicating the status reason.	**O**	**ID**	**3/3**

Segment : **DTM** **Date/Time Reference**
Level : Header
Loop : N/A
Usage : Mandatory
Max Use : 2
Purpose : To specify pertinent dates and times.
Syntax : 1) DTM02 and DTM03 are required.
Comment : 1) DTM01 = IMP is only required for consolidated shipments.
Example : DTM*011*20040619*0230*ET

Data Element Summary

REF. DES.	MTU-DD USAGE	NAME		ATTRIBUTES	
DTM01	**X**	**Date/Time Qualifier** Code specifying type of date or time, or both date and time.	**M**	**ID**	**3/3**
Mandatory **Conditional**		**011** **Shipped** **IMP** **Import (see comment # 1)**			
DTM02	**X**	**Date** Date (CCYYMMDD).	**M**	**DT**	**6/6**
DTM03	**X**	**Time** Time expressed in 24-hour clock time as follows: HHMM	**M**	**TM**	**4/8**
DTM04	**X**	**Time Code** **ET** = Eastern Time Zone **CT** = Central Time Zone **MT** = Mountain Time Zone **PT** = Pacific Time Zone *During periods of daylight savings time use:* **ED** = Eastern Daylight Time **CD** = Central Daylight Time **MD** = Mountain Daylight Time **PD** = Pacific Daylight Timwe *For suppliers shipping from European locations use:* **GM** = Greenwich Mean Time (GMT- England) **01** = GMT + 1 hour **02** = GMT + 2 hours **03** = GMT + 3 hours **04** = GMT + 4 hours *For suppliers shipping from South American locations use:* **20** = GMT – 5 hours (Eastern time) **21** = GMT – 4 hours (Atlantic time) **22** = GMT – 3 hours *For suppliers shipping from locations outside of North America use:* **01** = GMT + 1 hour **02** = GMT + 2 hours **03** = GMT + 3 hours **04** = GMT + 4 hours **05** = GMT + 5 hours **06** = GMT + 6 hours **07** = GMT + 7 hours **08** = GMT + 8 hours **09** = GMT + 9 hours **10** = GMT + 10 hours **11** = GMT + 11 hours **12** = GMT + 12 hours **13** = GMT + 13 hours **14** = GMT + 14 hours **15** = GMT + 15 hours	**M**	**ID**	**2/2**

REF. DES.	MTU-DD USAGE	NAME		ATTRIBUTES	
		16 = GMT - 9 hours **17** = GMT - 8 hours **18** = GMT - 7 hours **19** = GMT - 6 hours **20** = GMT - 5 hours **21** = GMT - 4 hours **22** = GMT - 3 hours **23** = GMT - 2 hours **24** = GMT - 1 hours			
DTM05	**Not Used**	**Date Time Period Format Qualifier** Code indicating the date format, time format, or date and time format.	**C**	**ID**	**2/3**
DTM06	**Not Used**	**Date Time Period** Expression of a date, a time, or range of dates, times or dates and times.	**C**	**AN**	**1/35**

Segment : **HL Hierarchical Level**
Level : Detail
Loop : HL – **Shipment**
Usage : Mandatory
Max Use : 1
Purpose : To identify dependencies among and the content of hierarchically related groups of data segments.
Comments : 1) The HL Segment is used to identify levels of detail information using a Hierarchical Structure, such as relating line item data to shipment data, and packaging data to line item data.
2) HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment, and would be incremented by one in each subsequent HL segment within the transaction.
3) HL02 identifies the Hierarchical ID Number of the HL segment to which the current HL segment is subordinate.
4) HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order or item level information.
Examples : HL*1**S

Data Element Summary

REF. DES.	MTU-DD USAGE	NAME	ATTRIBUTES		
HL01	**X**	**Hierarchical ID Number** A unique number assigned by the sender to identify a particular data segment in a hierarchical structure. **Use "1" for this occurrence of the HL at the shipment level.**	**M**	**AN**	**1/12**
HL02	**Not Used**	**Hierarchical Parent ID Number** Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to.	**O**	**AN**	**1/12**
HL03	**X**	**Hierarchical Level Code** Code defining the characteristic of a level in a hierarchical structure. **S Shipment**	**M**	**ID**	**1/2**
HL04	**Not Used**	**Hierarchical Child Code** Code indicating if there are hierarchical child data segments subordinate to the level being described **CT** = Central Time Zone.	**O**	**ID**	**1/1**

Segment : **MEA Measurements**
Level : Detail
Loop : HL – **Shipment**
Usage : Mandatory
Max Use : 40
Purpose : To specify physical measurements or counts, including dimensions, tolerances, variances, and weights
Syntax : 1) At least one of MEA03, MEA05, MEA06, or MEA08 is required
2) If MEA05 is present, then MEA04 is required.
3) If MEA06 is present, then MEA04 is required.
4) If MEA07 is present, then at least one of MEA03, MEA05 or MEA06 is required.
5) Only one of MEA08 or MEA03 may be present.
Comments : A) When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value
Examples : `MEA*PD*G*1000*LB`
`MEA*PD*N*970*LB`

Data Element Summary

REF. DES.	MTU-DD USAGE	NAME	ATTRIBUTES		
MEA01	**X**	**Measurement Reference ID Code** Code identifying the broad category to which a measurement applies.	**M**	**ID**	**2/2**
		PD Physical Dimensions			
MEA02	**X**	**Measurement Qualifier** Code identifying a specific product or process characteristic to which a measurement applies.	**M**	**ID**	**3/3**
		G Gross Weight **N Net Weight**			
MEA03	**X**	**Measurement Value** The value of the measurement.	**M**	**R**	**1/20**
MEA04	**X**	**Unit of Measurement Code** Code identifying the units in which a value is being expressed.	**M**	**ID**	**2/2**
		LB Pounds **KG Kilograms**			

Segment : **TD1** **Carrier Details (Quantity and Weight)**
Level : Detail
Loop : HL – **Shipment**
Usage : Mandatory
Max Use : 20
Purpose : To specify the transportation details relative to commodity, weight and quantity.
Syntax : 1) If TD103 is present, then TD104 is required.
2) If TD103 is present, then TD104 is required.
Comments : MTU DD requires that the Skid or Pallets quantity to be used the notation for the TD1. If 10 boxes are sent on one skid then notate 1 skid.
Examples : TD1*PLT71*1

Data Element Summary

REF. DES.	MTU-DD USAGE	NAME	ATTRIBUTES		
TD101	**X**	**Packaging Code** Code identifying the type of packaging. Part 1. Packaging form. Part 2.Packaging Material. **SKD71 Skid** **BOX25 Box** **PLT71 Pallet**	**M**	**AN**	**3/5**
TD102	**X**	**Lading Quantity** Number of units (pieces) of the lading commodity.	**M**	**N0**	**1/7**
TD103	**Not Used**	**Commodity Code Qualifier** Code identifying the commodity coding system used for Commodity Code.	**O**	**ID**	**1/1**
TD104	**Not Used**	**Commodity Code** Code describing a commodity or group of commodities.	**C**	**AN**	**1/16**
TD105	**Not Used**	**Lading Description** Description of an item as required for rating and billing purposes.	**O**	**AN**	**1/50**
TD106	**Not Used**	**Inspected/Weight Qualifier** Code defining the type of weight.	**O**	**ID**	**½**
TD107	**Not Used**	**Weight** Numeric value of weight.	**C**	**R**	**1/10**
TD108	**Not Used**	**Unit or Basis for Measurement Code** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken.	**C**	**ID**	**2/2**

Segment : **TD5 Carrier Details (Routing Sequence/Transit Time)**
Level : Detail
Loop : HL – **Shipment**
Usage : Mandatory
Max Use : 12
Purpose : To specify the carrier, sequence of routing and to provide transit time information
Syntax : 1) At least one of TD502, TD504, TD505, TD506 or TD512 is required.
2) TD503 is required, as per MTU DD specifications.
3) For overseas shipments, use AIRL as the SCAC code if it is sent via AIR or OCFR if it is sent via OCEAN but if shipment is from Consolidator, send the actual SCAC code.
Examples : TD5*B*2*RDWY*M

Data Element Summary

REF. DES.	MTU-DD USAGE	NAME	ATTRIBUTES		
TD501	**X**	**Routing Sequence Code** Code describing the relationship of a carrier to a specific shipment movement.	**M**	**ID**	**1/2**
		B Origin/Delivery Carrier (Any Mode)			
TD502	**X**	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67).	**M**	**ID**	**1/2**
		2 Standard Carrier Alpha Code (SCAC)			
TD503	**X**	**Identification Code** Code identifying a party or other code. (SCAC).	**M**	**AN**	**2/4**
TD504	**X**	**Transportation Method/Type Code** Code specifying the method or type of transportation for the shipment.	**M**	**ID**	**1/2**
		A Air **M Motor (Common Carrier/Trailer Load)** **U Private Parcel Service** **E Expedited Truck** **AC Air Charter** **AE Air Express** **S Ocean** **SR Supplier Truck** **LT Less then trailer load (LTL)**			
TD505	**Not Used**	**Routing** Free-form description of the routing or requested routing for shipment, or the originating carrier's identity.	**C**	**AN**	**1/35**
TD506	**Not Used**	**Shipment/Order Status Code** Code indicating the status of an order or shipment or the disposition of any difference between the quantity ordered and the quantity shipped for a line item or transaction.	**C**	**ID**	**2/2**
TD507	**Not Used**	**Location Qualifier** Code identifying type of location.	**C**	**ID**	**1/2**
TD508	**Not Used**	**Location Identifier** Code which identifies a specific location.	**C**	**AN**	**1/30**
TD509	**Not Used**	**Transit Direction Code** The point of origin and point of direction.	**O**	**ID**	**2/2**
TD510	**Not Used**	**Transit Time Direction Qualifier** Code specifying the value of time used to measure the transit time. HH=Hours, DD= Days	**O**	**ID**	**2/2**

REF. DES.	MTU-DD USAGE	NAME		ATTRIBUTES	
TD511	**Not Used**	**Transit Time** The number of hours or day the transit will take to arrive.	**C**	**R**	**1/4**
TD512	**Not Used**	**Service Level Code** Code defining service	**C**	**ID**	**2/2**

Segment : **TD3 Carrier Details (Equipment)**
Level : Detail
Loop : HL – **Shipment**
Usage : Mandatory
Max Use : 12
Purpose : To specify transportation details relating to the equipment used by the car.
Syntax : 1) Only one of TD301 or TD310 may be present.
2) If TD302 is present, then TD303 is required.
3) If TD304 is present, then TD305 is required.
4) If either TD305 or TD306 is present, then the other is required.
Semantics : Maximum use of this TD3 segment is one. This TD3 is used to identify the trailer number The TD303 will be a maximum of 10 digits. Check digits are not used on Sea Containers and Trailer numbers will not use leading zeros
Examples : `TD3*TL**1234567890`

Data Element Summary

REF. DES.	MTU-DD USAGE	NAME	ATTRIBUTES		
TD301	**X**	**Equipment Description Code** Code describing the relationship of a carrier to a specific shipment movement. **TL Trailer** **VE Vessel Ocean** **AP Aircraft**	**M**	**iD**	**2/2**
TD302	**Not Used**	**Equipment Initial**	**C**	**ID**	**1/4**
TD303	**X**	**Equipment Number** Sequencing or serial part of an equipment unit's identifying number (don't use '/' character). **Trailer Number if sent by motor** **ISO Container if sent by ocean** **Flight Number if sent by air**	**M**	**AN**	**1/10**
TD304	**Not Used**	**Weight Qualifier** Code defining the type of weight.	**O**	**ID**	**1/2**
TD305	**Not Used**	**Weight** Free-form description of the routing or requested routing for shipment, or the originating carrier's identity.	**O**	**R**	**1/10**
TD306	**Not Used**	**Unit or Basis for Measurement** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken.	**O**	**ID**	**2/2**
TD307	**Not Used**	**Ownership Code** Code indicating the relationship of equipment to carrier or ownership of equipment.	**O**	**ID**	**1/1**
TD308	**Not Used**	**Seal Status Code** Code indicating condition of door seal upon arrival	**O**	**ID**	**2/2**
TD309	**Not Used**	**Seal Number** Unique number on seal used to close a shipment.	**O**	**AN**	**2/15**

Segment : **REF Reference Numbers**
Level : Detail
Loop : HL – **Shipment**
Usage : Mandatory
Max Use : > 1
Purpose : To specify identifying numbers.
Syntax : 1) At least one of REF02 or REF03 is required.
Semantics : 1) REF04 contains data relating to the value cited in REF02.
Comments : A) If the shipment is from overseas, a pro number and/or bill of lading number is not required. Since the pro number and bill of lading number fields are mandatory, send "NA" in these fields (maximum of 10 characters - don't use '/' character).
B) If shipping by air, the Air Bill number is mandatory (maximum of 10 characters - don't use '/' character).
C) If shipment is from a Consolidator the MB - Master Bill of Lading Number is required.
Examples : REF*BM*12345
REF*CN*56234
REF*AW*07446391600
REF*MB*861027

Data Element Summary

REF. DES.	MTU-DD USAGE	NAME		ATTRIBUTES		
REF01	**X**	**Reference Number Qualifier** Code qualifying the Reference Number.	**M**	**ID**	**2/2**	
Conditional		**BM**	**Bill of Lading Number (see comment A above)**			
Conditional		**CN**	**Pro Number (see comment A above)**			
Conditional		**AW**	**Air Way Bill Number (see comment B above)**			
Conditional		**MB**	**Master Bill of Lading Number (see comment C above)**			
REF02	**X**	**Reference Number** Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier	**M**	**AN**	**1/30**	
REF03	**Not Used**	**Description** A free-form description to clarify the related data elements and their content.	**C**	**AN**	**1/80**	

Segment : **N1 Name**
Level : Detail
Loop : N1 – HL **Shipment**
Usage : Mandatory
Max Use : 1
Purpose : To identify a party by type of organization, name and code
Syntax : 1) At least one of N102 or N103 is required.
2) If either N103 or N104 is present, then the other is required.
Comments : A) This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide the MTU DD customer 'Charge to' and 'Ship to' code if the sending party is a MTU DD customer or a direct ship vendor.
B) If shipment is from Consolidator, the conditional N101 codes are mandatory. These conditional N101 codes should send the corresponding SCAC Code in N104.
C) If shipment is from Consolidator, for SU (Supplier/Manufacturer), specify the vendor code of the real Supplier, if necessary.
Examples : `N1*ST**92*00900033`
`N1*SF**92*100001`
`N1*MA**92*00900033`
`N1*SU**92*100001`

Data Element Summary

REF. DES.	MTU-DD USAGE	NAME			ATTRIBUTES	
N101	**X**	**Entity Identifier Code**		**M**	**ID**	**2/2**
		Code identifying an organizational entity, a physical location, or an individual.				
	Mandatory	**SF**	**Ship From**			
	Mandatory	**ST**	**Ship To (Fleet Charge-To and Ship-To code)**			
	Mandatory	**SU**	**Supplier/Manufacturer (see comment C)**			
	Mandatory	**MA**	**Final Destination of Shipment**			
	Conditional	**CS**	**Consolidator**			
	Conditional	**CA**	**Carrier**			
	Conditional	**FW**	**Freight Forwarder**			
	Conditional	**BR**	**Broker or Sales Office Number**			
	Conditional	**AG**	**Agent's**			
N102	**Not Used**	**Name**		**O**	**AN**	**1/35**
		Used for Charge to code of customer sending the data. ****				
N103	**X**	**Identification Code Qualifier**		**M**	**ID**	**1/2**
		Code designating the method of code structure used for Identification Code.				
		92	**MTU DD - Ship to**			
N104	**X**	**Identification Code**		**M**	**AN**	**2/17**
		SF/SU				
		MTU-DD Vendor Number	eg 100001			
		CS/CA/FW/BR/AG				
		Vendor's SCAC Code	eg UPSS			
		ST/MA Plant for non-direct ship delivery				
		MTU Detroit Diesel, Redford	00900015			
		MTU Detroit Diesel, Redford	00900016			
		MTU Detroit Diesel, Canton	00900020			
		MTU Detroit Diesel, Redford	00900030			
		MTU Detroit Diesel, Redford	00900031			
		MTU Detroit Diesel, Canton	00900032			
		MTU Detroit Diesel, Canton	00900033			
		MTU Detroit Diesel, Canton	00900099			
		MTU Detroit Diesel, Redford	0091R010			
		MTU Detroit Diesel, Menlo	0091R011			

REF. DES.	MTU-DD USAGE	NAME	ATTRIBUTES		
		MTU Detroit Diesel, Redford	0091R020		
		Tremont	0091R030		
		Woodfab	0091R031		
		TransOverseas	0091R032		
		MTU Detroit Diesel, Canton	0091R033		
		Engine Plus	0091R034		
		MTU Detroit Diesel, Redford	0091R098		
		MTU Detroit Diesel, Redford	0091R099		
		ST Plant for direct ship delivery			
		MTU Detroit Diesel, Redford	00900015		
		MTU Detroit Diesel, Redford	00900016		
		MTU Detroit Diesel, Canton	00900020		
		MTU Detroit Diesel, Redford	00900030		
		MTU Detroit Diesel, Redford	00900031		
		MTU Detroit Diesel, Canton	00900032		
		MTU Detroit Diesel, Canton	00900033		
		MTU Detroit Diesel, Canton	00900099		
		MTU Detroit Diesel, Redford	0091R010		
		MTU Detroit Diesel, Menlo	0091R011		
		MTU Detroit Diesel, Redford	0091R020		
		Tremont	0091R030		
		Woodfab	0091R031		
		TransOverseas	0091R032		
		MTU Detroit Diesel, Canton	0091R033		
		Engine Plus	0091R034		
		MTU Detroit Diesel, Redford	0091R098		
		MTU Detroit Diesel, Redford	0091R099		
		MA Customer Number for direct ship delivery			
		MTU DD Customer Number	10 character length field padded with leading zeroes (eg 0021000001)		
		Entity Relationship Code			
N105	**Not Used**	Code describing entity relationship	**O**	**ID**	**2/2**
		Entity Identifier Code			
N106	**Not Used**	Code identifying an organizational entity, a physical location, or an individual.	**O**	**ID**	**2/2**

Segment : **V1 Vessel Identification**
Level : Detail
Loop : V1 – HL **Shipment**
Usage : Optional
Max Use : 1
Purpose : To provide vessel details and voyage number.
Syntax : 1) R0102 - At least one of V101 or V102 is required.
2) C0801 - If V108 is present, then V101 is required.
Semantics : 1) V103 is the code identifying the country in which the ship (vessel) is registered.
2) V105 identifies the ocean carrier.
Comments : This segment is relevant only if the shipment is from a Consolidator
Examples : V1**Vessel 193

Data Element Summary

REF. DES.	MTU-DD USAGE	NAME	ATTRIBUTES		
V101	**Not Used**	**Vessel Code** Code identifying vessel	**O**	**ID**	**1/8**
V102	**X**	**Vessel Name** Name of ship as documented in “Lloyd’s Register of Ships”	**X**	**AN**	**2/28**
V103	**Not Used**	**Country Code** Code identifying the country	**O**	**ID**	**2/3**
V104	**Not Used**	**Flight/Voyage Number** Identifying designator for the particular flight or voyage on which the cargo travels	**O**	**AN**	**2/10**
V105	**Not Used**	**Standard Carrier Alpha Code** Standard Carrier Alpha Code	**O**	**ID**	**2/4**
V106	**Not Used**	**Vessel Requirement Code** Code specifying options for satisfying vessel requirements	**O**	**ID**	**1/1**
V107	**Not Used**	**Vessel Type Code** Code to determine type of vessel	**O**	**ID**	**2/2**
V108	**Not Used**	**Vessel Code Qualifier** Code specifying vessel code source	**O**	**ID**	**1/1**
V109	**Not Used**	**Transportation Method/Type Code** Code specifying the method or type of transportation for the shipment	**O**	**ID**	**1/2**

Segment : **R4 Port or Terminal**
Level : Detail
Loop : V1 – HL **Shipment**
Usage : Conditional
Max Use : >1
Purpose : Contractual or operational port or point relevant to the movement of the cargo.
Syntax : 1) PO203 - If either R402 or R403 is present, then the other is required.
Comments : R4 is required for each port to be defined.
Examples : R4*G***4701*USA

Data Element Summary

REF. DES.	MTU-DD USAGE	NAME	ATTRIBUTES		
R401	**X**	**Port or Terminal Function Code** Code defining function performed at the port or terminal with respect to a shipment	**M**	**ID**	**1/1**
		J **Bill of Lading Port of Loading (Contractual)**			
		K **Bill of Lading Port of Discharge (Contractual)**			
		Q **Bill of Lading Origin of Goods (Contractual)**			
		W **Bill of Lading Release Office (Operational)**			
R402	**Not Used**	**Location Qualifier** Code identifying type of location	**O**	**ID**	**1/2**
R403	**Not Used**	**Location Identifier** Code which identifies a specific location	**X**	**AN**	**1/30**
R404	**X**	**Port Name** Code defining the place at which an offshore carrier originates or terminates by transshipment or otherwise) its actual ocean carriage of property	**O**	**AN**	**2/24**
		1535 **Toronto**			
		1822 **Montreal**			
		2304 **Laredo Service Port**			
		2704 **Port of Long Beach**			
		2811 **Port of Oakland**			
		3001 **Kent**			
		3801 **Detroit Service Airport**			
		3807 **Detroit International Airport**			
		3901 **Chicago Service Port**			
		3906 **O'Hare International Airport**			
		4101 **Cleveland Service Port**			
		4192 **Toledo Express Airport**			
		4601 **Newark/New York Service Port**			
		4701 **JFK International Airport**			
		5201 **Port of Miami**			
		5210 **Fort Lauderdale**			
		20199 **Vera Cruz**			
		41251 **Liverpool**			
		42157 **Rotterdam**			
		42305 **Antwerpen**			
		42869 **Bremen**			
		42870 **Bremerhaven**			
		42879 **Hamburg**			
		42899 **Stuttgart**			
		AMS **Amsterdam**			
		ATL **Atlanta**			
		BHX **Birmingham**			
		BLQ **Bologna**			

REF. DES.	MTU-DD USAGE	NAME	ATTRIBUTES		
		CDG **Paris**			
		DFW **Dallas**			
		DTW **Detroit**			
		EWR **Newark**			
		FCO **Rome**			
		FRA **Frankfurt**			
		HNL **Honolulu**			
		HOU **Houston**			
		IAD **Washington**			
		LAX **Los Angeles**			
		LHR **London**			
		MAN **Manchester**			
		MEX **Mexico**			
		MIA **Miami**			
		MSP **Minneapolis**			
		MUC **Munich**			
		NRT **Tokyo**			
		ORD **Chicago**			
		PHL **Philadelphia**			
		SAV **Savannah**			
		SCL **Santiago**			
		SEA **Seattle**			
		SFO **San Francisco**			
		SOF **Sofia**			
		STR **Stuttgart**			
		TRN **Turin (Torino)**			
		VIE **Vienna**			
		YUL **Montreal**			
		YVR **Vancouver**			
		YYZ **Toronto**			
R405	**X**	**Country Code** Code identifying the country (see Appendix B for Country Codes)	**O**	**ID**	**2/3**
R406	**Not Used**	**Terminal Name** Free-form for terminal name	**O**	**AN**	**2/30**
R407	**Not Used**	**Pier Number** Identifying number for the pier	**O**	**AN**	**1/4**
R408	**Not Used**	**State or Province Code** Code (Standard State/Province) as defined by appropriate government agency	**O**	**ID**	**2/2**

Segment : **HL Hierarchical Level**
Level : Detail
Loop : HL – **Order**
Usage : Mandatory
Max Use : 1
Purpose : To identify dependencies among and the content of hierarchically related groups of data segments.
Comments : A) The HL Segment is used to identify levels of detail information using a Hierarchical Structure, such as relating line item data to shipment data, and packaging data to line item data
B) HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment, and would be incremented by one in each subsequent HL segment within the transaction.
C) HL02 identifies the Hierarchical ID Number of the HL segment to which the current HL segment is subordinate.
D) HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order or item level information.
E) HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.
Examples : HL*2**0

Data Element Summary

REF. DES.	MTU-DD USAGE	NAME	ATTRIBUTES		
HL01	**X**	**Hierarchical ID Number** A unique number assigned by the sender to identify a particular data segment in a hierarchical structure **"1" is used for the shipment level HL segment. Increment by 1 for each subsequent HL segment within the transaction.**	**M**	**AN**	**1/2**
HL02	**Not Used**	**Hierarchical Parent ID Number** Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	**O**	**AN**	**1/2**
HL03	**X**	**Hierarchical Level Code** Code defining the characteristic of a level in a hierarchical structure. **O Order**	**M**	**ID**	**1/2**
HL04	**Not Used**	**Hierarchical Child Code** Code indicating if there are hierarchical child data segments subordinate to the level being described. .	**O**	**ID**	**1/1**

Segment : **LIN Item Identification**
Level : Detail
Loop : HL – **Order**
Usage : Mandatory
Max Use : 1
Purpose : To specify basic item identification data.
Syntax : 1) If a qualifier is present, then the associated code is required.
Semantics : 1) LIN01 is the line item identification.
Comments : 1) See the Data Dictionary for a complete list of ID's.
2) LIN02 through LIN31 provide for fifteen (15) different product/service ID's for each item. For Example: Part Number, Item Number, Control Number, and Part Description.
3) There should be one LIN segment in each Order level. The LIN segment is used to identify the buyer's number or Returnable Container Part number and to cross reference parts to returnable containers. If returnable container is used or expendable container (see comment 4), the Container Part number is required in the LIN segment for the released part, as well as in an additional LIN segment in its own Order level.
4) For expendable containers use 00000EXP.
5) The LIN for the number of returnable containers resides in their own level. See samples at the end of the document.
Examples : `LIN**BP*05108965*CH*US*RC*0CC00091`
`LIN**RC*0CC00091`
Expendable Example:
`LIN**BP*05108965*CH*US*RC*00000EXP`
`LIN**RC*00000EXP`

Data Element Summary

REF. DES.	MTU-DD USAGE	NAME		ATTRIBUTES		
LIN01	**Not Used**	**Assigned Identification**		**O**	**AN**	**1/20**
		Alphanumeric characters assigned for differentiation within a transaction set.				
LIN02	**X**	**Product/Service ID Qualifier**		**M**	**ID**	**2/2**
		Code identifying the type/source of the descriptive number used in Product/Service ID.				
Mandatory		**BP**	**MTU DD Part Number**			
Conditional		**RC**	**Returnable Container Number**			
LIN03	**X**	**Product/Service ID**		**M**	**AN**	**1/48**
		Identifying number for a product or service.				
LIN04	**X**	**Product/Service ID Qualifier**		**M**	**ID**	**2/2**
		Code identifying the type/source of the descriptive number used in Product/Service ID.				
Mandatory		**CH**	**Country of Origin Code (see Appendix B for Country Codes)**			
Mandatory		**RC**	**Returnable Container Number (see comment #3 and #4)**			
Conditional		**VP**	**Customer Part Number**			
LIN05	**X**	**Product/Service ID**		**M**	**AN**	**1/48**
		Identifying number for a product or service. LIN06 through LIN31 have been removed to save space, ease readability, and eliminate redundancy.				

Segment : **SN1 Item Detail (Shipment)**
Level : Detail
Loop : HL – **Order**
Usage : Mandatory
Max Use : 1
Purpose : To specify line item detail relative to shipment
Notes : 1) CTT02 (hash total) is the total count of all SN102 values.
Syntax : 1) If SN105 or SN106 is present, then the other is required.
Semantics : 1) SN101 is the ship notice line item identification.
Comments : A) SN103 defines the unit of measurement for both SN102 and SN104.
Examples : SN1**5*EA*100

Data Element Summary

REF. DES.	MTU-DD USAGE	NAME		ATTRIBUTES	
SN101	**Not Used**	**Assigned Identification** Alphanumeric characters assigned for differentiation within a transaction set.	**O**	**AN**	**1/20**
SN102	**X**	**Number of Units Shipped** Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set.	**M**	**R**	**1/10**
SN103	**X**	**Unit or Basis for Measurement** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken.	**M**	**ID**	**2/2**
		EA Piece/Each CN Canister/Can CT Carton DR Drum FT Foot GA US Gallon LB Pound LO Lot MR Meter PA Pail PK Pack/Package QT Quart, US liquid RL Roll LT Litre KG Kilogram M2 Square Meter ST Set TU Tube UT Unit			
SN104	**X**	**Quantity Shipped to Date** Number of units shipped to date	**M**	**R**	**1/15**
SN105	**Not Used**	**Quantity Ordered** Quantity ordered.	**O**	**R**	**1/15**
SN106	**Not Used**	**Unit or Basis for Measurement Code** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	**C**	**ID**	**2/2**
SN107	**Not Used**	**Returnable Container Load make-up Code** Code identifying the load make-up of the returnable containers in the shipment.	**O**	**ID**	**1/2**

REF. DES.	MTU-DD USAGE	NAME	ATTRIBUTES		
SN108	**Not Used**	**Line Item Status Code**	**O**	**ID**	**2/2**
		Code specifying the action taken by the seller on a line item requested by the buyer.			

Segment : **PRF Purchase Order/SA Reference**
Level : Detail
Loop : HL – **Order**
Usage : Mandatory
Max Use : 1
Purpose : To provide reference to a specific purchase order/scheduling agreement
Notes : For Non-Consolidated shipments, reference Purchase Order Number must be unique within one shipment (ie. within one ST-SE loop).
Examples : PRF*4563000100****10

Data Element Summary

REF. DES.	MTU-DD USAGE	NAME	ATTRIBUTES		
PRF01	**X**	**Purchase Order Number** Identifying number for Purchase Order/scheduling agreement assigned by the orderer/purchaser (See Notes)	**M**	**AN**	**1/10**
PRF02	**Not Used**	**Release Number** Number identifying a release against a Purchase Order/scheduling agreement previously placed by the parties involved in the transaction.	**O**	**AN**	**1/30**
PRF03	**Not Used**	**Change Order Sequence Number** Number assigned by the ordering party identifying a specific change or revision to a previously transmitted transaction set.	**O**	**AN**	**1/8**
PRF04	**Not Used**	**Purchase Order Date** Date assigned by the purchaser to Purchase Order.	**O**	**DT**	**8/8**
PRF05	**X**	**Assigned Identification** Alphanumeric characters assigned for differentiation within a transaction set.	**O**	**AN**	**1/5**
PRF06	**Not Used**	**Contract Number** Contract number.	**O**	**AN**	**1/30**
PRF07	**Not Used**	**Purchase Order Type Code** Code specifying the type of Purchase Order.	**O**	**ID**	**2/2**

Segment : **PID Product/Item Description**
Level : Detail
Loop : HL – **Order**
Usage : Conditional
Max Use : 200
Purpose : To describe a product or process in coded or free-form format
Syntax : 1) At least one of PID04 or PID05 is required.
Comments : A) If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used.
If PID01 equals "X", then both PID04 and PID05 are used.
This is mandatory for S60 engine (prefixed with 'MTU') shipments. Each engine unit should have a corresponding IPAS information.
B) Serial number entered in the IPAS Data should also appear as a reference serial number (REF segment for REF01 = SE)
Examples : `PID*F*9C***1300155;0001;10;2009-1000-1010-020`

Data Element Summary

REF. DES.	MTU-DD USAGE	NAME	ATTRIBUTES		
PID01	**X**	**Item Description Type** Code indicating the format of a description	**M**	**ID**	**1/1**
Conditional		**F Free-form (see Comment A above)**			
PID02	**X**	**Product/Process Characteristic Code** Code identifying the general class of a product or process characteristic	**O**	**ID**	**2/3**
		MTU-DD will use '9C' to indicate the IPAS data for one S60 engine unit			
Conditional		**9C Engine**			
PID03	**Not Used**	**Agency Qualifier Code** Code identifying the agency assigning the code values	**C**	**ID**	**2/2**
PID04	**Not Used**	**Product Description Code** A code from an industry code list which provides specific data about a product characteristic	**C**	**AN**	**1/12**
PID05	**X**	**Description** A free-form description to clarify the related data elements and their content	**C**	**AN**	**1/80**
		IPAS Data for one S60 engine unit (prefixed with 'MTU'). Text format must be in the following sequence with semi-colon (";") as the delimiter: ▪ **IPAS Number** ▪ **IPAS Engine Number** ▪ **Sequence Number** ▪ **Serial Number (see Comment B above)**			

Segment : **REF Reference Numbers**
Level : Detail
Loop : HL – **Order**
Usage : Mandatory
Max Use : 1
Purpose : To specify identifying numbers.
Syntax : 1) At least one of REF02 or REF03 is required.
Semantics : 1) REF04 contains data relating to the value cited in REF02.
Comments : A) This segment must have the packing list number for material shipped direct from a vendor or distributor to an MTU DD customer or MTU DD facility (maximum of 10 characters).
B) Consolidated shipments will require invoice number (maximum of 25 characters), House Bill of Lading and Shipper's ID number. House Bill of Lading and Shipper's ID number is maximum of 10 characters (don't use '/' character).
C) Each engine unit should have a serial number (maximum of 18 characters).
Examples : REF*PK*236985
REF*IK*101273
REF*BM*5273459
REF*SI*56023
REF*SE*1234567890

Data Element Summary

REF. DES.	MTU-DD USAGE	NAME		ATTRIBUTES		
REF01	**X**	**Reference Number Qualifier** Code qualifying the Reference Number.		**M**	**ID**	**2/2**
Mandatory		**PK**	**Packing List Number (Vendor Invoice Number) (see comment A)**			
Conditional		**IK**	**Invoice Number (see comment B)**			
Conditional		**BM**	**House Bill of Lading (see comment B)**			
Conditional		**SI**	**Shipper's ID Number (see comment B)**			
Conditional		**SE**	**Serial Number (see comment C)**			
REF02	**X**	**Reference Number** Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.		**M**	**AN**	**1/30**
REF03	**Not Used**	**Description** A free-form description to clarify the related data elements and their content.		**C**	**AN**	**1/80**

Segment : **CLD Load Detail**
Level : Detail
Loop : CLD – HL **Order**
Usage : Optional
Max Use : 3
Purpose : To specify the number of material loads shipped.
Syntax : 1) If CLD05 is present, then CLD04 is required.
Semantics : 1) CLD05 is used to dimension the value given in CLD04.
Comments : The CLD data segment may be used to provide information to aid in the preparation of move tags and/or bar coded labels. MTU DD requires that Skid or Pallet quantities be sent in this segment if Skids or Pallets are used.
Examples : CLD*2*22*PLT71

Data Element Summary

REF. DES.	MTU-DD USAGE	NAME		ATTRIBUTES	
CLD01	**X**	**Number of Loads**	**M**	**N0**	**1/5**
		Number of customer-defined loads shipped by the supplier.			
CLD02	**X**	**Number of Units Shipped**	**M**	**R**	**1/10**
		Numeric Value of units shipped in manufacturer's shipping units for a line item.			
		Total quantity per container.			
CLD03	**X**	**Packing Code**	**M**	**AN**	**3/5**
		Code identifying the type of packaging. Examples are below.			
		SKD71 **Skid**			
		BOX25 **Box**			
		PLT71 **Pallet**			

Segment : **N1 Name**
Level : Detail
Loop : N1 – HL **Order**
Usage : Conditional
Max Use : 1
Purpose : To identify a party by type of organization, name and code
Syntax : 1) At least one of N102 or N103 is required.
2) If either N103 or N104 is present, then the other is required.
Comments : A) If shipment is from Consolidator, this segment is a mandatory. The codes for the entities will be coming from N1 (HL - Shipment) of the individual shipments.
Examples : `N1*ST**92*00900033`
`N1*SF**92*100001`
`N1*MA**92*00900033`
`N1*SU**92*100001`

Data Element Summary

REF. DES.	MTU-DD USAGE	NAME		ATTRIBUTES		
N101	**X**	**Entity Identifier Code**		**M**	**ID**	**2/2**
		Code identifying an organizational entity, a physical location, or an individual.				
	Mandatory	**SF**	**Ship From**			
	Mandatory	**ST**	**Ship To (Fleet Charge-To and Ship-To code)**			
	Mandatory	**SU**	**Supplier/Manufacturer**			
	Mandatory	**MA**	**Final Destination of Shipment**			
N102	**Not Used**	**Name**		**O**	**AN**	**1/35**
		Used for Charge to code of customer sending the data. ****				
N103	**X**	**Identification Code Qualifier**		**M**	**ID**	**1/2**
		Code designating the method of code structure used for Identification Code.				
		92	**MTU DD - Ship to**			
N104	**X**	**Identification Code**		**M**	**AN**	**2/17**
		SF/SU				
		MTU-DD Vendor Number	eg 100001			
		CS/CA/FW/BR/AG				
		MTU-DD Vendor Number	eg 100001			
		ST/MA Plant for non-direct ship delivery				
		MTU Detroit Diesel, Redford	00900015			
		MTU Detroit Diesel, Redford	00900016			
		MTU Detroit Diesel, Canton	00900020			
		MTU Detroit Diesel, Redford	00900030			
		MTU Detroit Diesel, Redford	00900031			
		MTU Detroit Diesel, Canton	00900032			
		MTU Detroit Diesel, Canton	00900033			
		MTU Detroit Diesel, Canton	00900099			
		MTU Detroit Diesel, Redford	0091R010			
		MTU Detroit Diesel, Menlo	0091R011			
		MTU Detroit Diesel, Redford	0091R020			
		Tremont	0091R030			
		Woodfab	0091R031			
		TransOverseas	0091R032			
		MTU Detroit Diesel, Canton	0091R033			
		Engine Plus	0091R034			
		MTU Detroit Diesel, Redford	0091R098			
		MTU Detroit Diesel, Redford	0091R099			
		ST Plant for direct ship delivery				

REF. DES.	MTU-DD USAGE	NAME	ATTRIBUTES		
		MTU Detroit Diesel, Redford	00900015		
		MTU Detroit Diesel, Redford	00900016		
		MTU Detroit Diesel, Canton	00900020		
		MTU Detroit Diesel, Redford	00900030		
		MTU Detroit Diesel, Redford	00900031		
		MTU Detroit Diesel, Canton	00900032		
		MTU Detroit Diesel, Canton	00900033		
		MTU Detroit Diesel, Canton	00900099		
		MTU Detroit Diesel, Redford	0091R010		
		MTU Detroit Diesel, Menlo	0091R011		
		MTU Detroit Diesel, Redford	0091R020		
		Tremont	0091R030		
		Woodfab	0091R031		
		TransOverseas	0091R032		
		MTU Detroit Diesel, Canton	0091R033		
		Engine Plus	0091R034		
		MTU Detroit Diesel, Redford	0091R098		
		MTU Detroit Diesel, Redford	0091R099		
		MA Customer Number for direct ship delivery			
		MTU DD Customer Number	10 character length field padded with leading zeroes (eg 0021000001)		
		Entity Relationship Code			
N105	**Not Used**	Code describing entity relationship	**O**	**ID**	**2/2**
		Entity Identifier Code			
N106	**Not Used**	Code identifying an organizational entity, a physical location, or an individual.	**O**	**ID**	**2/2**

Segment : **DTM** **Date/Time Reference**
Level : Detail
Loop : V1 - HL **Order**
Usage : Conditional
Max Use : 2
Purpose : To specify pertinent dates and times.
Syntax : 1) DTM02 and DTM03 are required.
Comments : A) Consolidated shipments will require invoice date and export date
Example : DTM*003*20040619*0230*ET

Data Element Summary

REF. DES.	MTU-DD USAGE	NAME		ATTRIBUTES	
DTM01	**X**	**Date/Time Qualifier** Code specifying type of date or time, or both date and time. **003** **Invoice** **EXP** **Export**	**M**	**ID**	**3/3**
DTM02	**X**	**Date** Date (CCYYMMDD).	**M**	**DT**	**6/6**
DTM03	**X**	**Time** Time expressed in 24-hour clock time as follows: HHMM	**M**	**TM**	**4/8**
DTM04	**X**	**Time Code** **ET** = Eastern Time Zone **CT** = Central Time Zone **MT** = Mountain Time Zone **PT** = Pacific Time Zone *During periods of daylight savings time use:* **ED** = Eastern Daylight Time **CD** = Central Daylight Time **MD** = Mountain Daylight Time **PD** = Pacific Daylight Timwe *For suppliers shipping from European locations use:* **GM** = Greenwich Mean Time (GMT- England) **01** = GMT + 1 hour **02** = GMT + 2 hours **03** = GMT + 3 hours **04** = GMT + 4 hours *For suppliers shipping from South American locations use:* **20** = GMT – 5 hours (Eastern time) **21** = GMT – 4 hours (Atlantic time) **22** = GMT – 3 hours *For suppliers shipping from locations outside of North America use:* **01** = GMT + 1 hour **02** = GMT + 2 hours **03** = GMT + 3 hours **04** = GMT + 4 hours **05** = GMT + 5 hours **06** = GMT + 6 hours **07** = GMT + 7 hours **08** = GMT + 8 hours **09** = GMT + 9 hours **10** = GMT + 10 hours **11** = GMT + 11 hours **12** = GMT + 12 hours **13** = GMT + 13 hours **14** = GMT + 14 hours **15** = GMT + 15 hours	**M**	**ID**	**2/2**

REF. DES.	MTU-DD USAGE	NAME		ATTRIBUTES	
		16 = GMT - 9 hours **17** = GMT - 8 hours **18** = GMT - 7 hours **19** = GMT - 6 hours **20** = GMT - 5 hours **21** = GMT - 4 hours **22** = GMT - 3 hours **23** = GMT - 2 hours **24** = GMT - 1 hours			
DTM05	**Not Used**	**Date Time Period Format Qualifier** Code indicating the date format, time format, or date and time format.	**C**	**ID**	**2/3**
DTM06	**Not Used**	**Date Time Period** Expression of a date, a time, or range of dates, times or dates and times.	**C**	**AN**	**1/35**

Segment : **CTT** **Transaction Totals**
Level : Summary
Loop :
Usage : Mandatory
Max Use : **1**
Purpose : To transmit a hash total for a specific element in the transaction set.
Syntax : 1) If CTT03 is present, then CTT04 is required.
2) If CTT05 is present, then CTT06 is required.
Comments : This segment is intended to provide hash totals to validate transaction completeness and correctness.
Examples : CTT*6*15

Data Element Summary

REF. DES.	MTU-DD USAGE	NAME	ATTRIBUTES		
CTT01	**X**	**Number of Line Items** Total number of line items in the transaction set (HL).	**M**	**N0**	**1/6**
CTT02	**X**	**Hash Total** Hash total of quantity shipped (SN102).	**M**	**R**	**1/10**
CTT03	**Not Used**	**Weight** Numeric value of weight.	**O**	**R**	**1/10**
CTT04	**Not Used**	**Unit or Basis for Measurement Code** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken. Refer to 003040 Data Element Dictionary for acceptable code values.	**C**	**ID**	**2/2**
CTT05	**Not Used**	**Volume** Value of volumetric measure.	**O**	**R**	**1/8**
CTT06	**Not Used**	**Unit or Basis for Measurement Code** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken.	**C**	**ID**	**2/2**
CTT07	**Not Used**	**Description** A free-form description to clarify the related data elements and their content.	**O**	**AN**	**1/80**

Appendix A

Sample Files / Sample Transmission
(Note ANSI X.12 normally does not contain CarrigeReturn/Linefeed characters)

NON-CONSOLIDATED SHIPMENT - DIRECT STOCK PURCHASE

ISA*00* *00* *ZZ*MTU-102297 *ZZ*MTU-DD *070301*1806*U*00401*000002306*0*P*>~
GS*SH*MTU102297*MTU-DD*20070301*1806*72*X*004010~
ST*856*0075~
BSN*00*MS4REGXI01*20070301*1010~
DTM*011*20070301*1000*MT~
HL*1S~**
MEA*PD*G*96*LB~
MEA*PD*N*100*LB~
TD1*BOX25*2~
TD5*B*2*AIRL*A~
TD3*APKL6053~**
REF*AW*07446391600~
REF*BM*NA~
REF*CN*NA~
N1*SF92*102297~**
N1*ST92*00900033~**
N1*SU92*102297~**
N1*MA92*00900033~**
HL*2*1*O~
LINBP*000000001684*CH*US*RC*011440E1~**
SN110*EA*0~**
PRF*4563001080**10~**
REF*PK*MS4REGXI~
CLD*2*5*BOX25~
HL*3*1*O~
LINBP*000000002063*CH*US*RC*011440E1~**
SN120*EA*0~**
PRF*4563001080**20~**
REF*PK*MS4REGXI~
CLD*2*10*BOX25~
HL*4*1*O~
LINBP*0005330780*CH*US*RC*011440E1~**
SN130*MR*0~**
PRF*4563001080**50~**
REF*PK*MS4REGXI~
CLD*2*15*BOX25~
HL*5*1*O~
LINRC*011440E1~**
SN10*EA*0~**
CTT*5*60~
SE*37*0075~
GE*1*72~
IEA*1*000002306~

NON-CONSOLIDATED SHIPMENT - ENGINES

ISA*00* *00* *ZZ*MTU-101196 *ZZ*MTU-DD *090114*1806*U*00401*000005500*0*P*>~
GS*SH*MTU-101196*MTU-DD*20090114*1500*56*X*004010~
ST*856*0100~
BSN*00*ENGASN-001*20090114*1010~
DTM*011*20090114*1000*MT~
HL*1S~**
MEA*PD*G*96*LB~
MEA*PD*N*100*LB~
TD1*PLT71*3~
TD5*B*2*RDWY*M~
TD3*TLTRAIL123~**
REF*AW*NA~
REF*BM*BM123~
REF*CN*CN123~
N1*SF92*101196~**
N1*ST92*0091R020~**
N1*SU92*101196~**
N1*MA92*0091R020~**
HL*2*1*O~
LINBP*12V4000G80*CH*US*RC*011440E1~**
SN12*UT*0~**
PRF*4563002034**10~**
REF*PK*PKENG-010~
REF*SE*2009-1000-001~
REF*SE*2009-1000-002~
CLD*2*1*PLT71~
HL*3*1*O~
LINBP*12V4000G83*CH*US*RC*011440E1~**
SN11*UT*0~**
PRF*4563002034**30~**
REF*PK*PKENG-020~
REF*SE*2009-2000-001~
CLD*1*1*PLT71~
HL*4*1*O~
LINRC*011440E1~**
SN10*EA*0~**
CTT*4*3~
SE*35*0100~
GE*1*56~
IEA*1*000005500~

NON-CONSOLIDATED SHIPMENT - S60 ENGINES (with IPAS data)

ISA*00* *00* *ZZ*MTU-101196 *ZZ*MTU-DD *090114*1806*U*00401*000002300*0*P*>~
GS*SH*MTU-101196*MTU-DD*20090114*1500*23*X*004010~
ST*856*0150~
BSN*00*S60ASN-001*20090114*1010~
DTM*011*20090709*1000*MT~
HL*1S~**
MEA*PD*G*96*LB~
MEA*PD*N*100*LB~
TD1*PLT71*3~
TD5*B*2*HMES*M~
TD3*TLTRL999~**
REF*AW*NA~
REF*BM*BM999~
REF*CN*CN999~
N1*SF92*101196~**
N1*ST92*0091R020~**
N1*SU92*101196~**
N1*MA92*0091R020~**
HL*2*1*O~
LINBP* MTU0101-0001*CH*US*RC*011440E1~**
SN12*UT*0~**
PRF*4563002133**10~**
PID*F*9C*1300155;0001;10;2009-1000-1010-001~**
PID*F*9C*1300161;0001;15;2009-1000-1010-002~**
REF*PK*PKS60-010~
REF*SE*2009-1000-1010-001~
REF*SE*2009-1000-1010-002~
CLD*2*1*PLT71~
HL*3*1*O~
LINBP*MTU0101-0003*CH*US*RC*011440E1~**
SN11*UT*0~**
PRF*4563002133**30~**
PID*F*9C*1300158;0001;8;2009-3000-1010-005~**
REF*PK*PKS60-030~
REF*SE*2009-3000-1010-005~
CLD*1*1*PLT71~
CTT*3*3~
SE*36*0150~
GE*1*23~
IEA*1*000002300~

Appendix B - List of Country Codes

CTRY	COUNTRY NAME	CTRY	COUNTRY NAME
AD	ANDORRAN	CN	CHINA
AE	UTD.ARAB.EMIR.	CO	COLUMBIA
AF	AFGHANISTAN	CR	COSTA RICA
AG	ANTIGUA/BARBUDA	CS	SERBIA/MONTEN.
AI	ANGUILLA	CU	CUBA
AL	ALBANIA	CV	CAPE VERDE
AM	ARMENIA	CX	CHRISTMAS ISLND
AN	DUTCH ANTILLES	CY	CYPRUS
AO	ANGOLA	CZ	CZECH REPULIC
AQ	ANTARCTICA	DE	GERMANY
AR	ARGENTINA	DJ	DJIBOUTI
AS	SAMOA, AMERICA	DK	DENMARK
AT	AUSTRIA	DM	Dominica
AU	AUSTRALIA	DO	DOMINICAN REP.
AW	ARUBA	DZ	ALGERIA
AZ	ASERBAIDJAN	EC	ECUADOR
BA	BOSNIA-HERZ.	EE	ESTONIA
BB	BARBADOS	EG	EGYPT
BD	BANGLADESH	EH	WEST SAHARA
BE	BELGIUM	ER	ERITREA
BF	BURKINA FASO	ES	SPAIN
BG	BULGARIA	ET	ETHIOPIA
BH	BAHRAIN	FI	FINLAND
BI	BURUNDI	FJ	FIJI
BJ	BENIN	FK	FALKLAND ISLNDS
BM	BERMUDA	FM	MICRONESIA
BN	BRUNEI DARUSS.	FO	FAROE ISLANDS
BO	BOLIVIA	FR	FRANCE
BR	BRAZIL	GA	GABON
BS	BAHAMAS	GB	GREAT BRITAIN
BT	BHUTAN	GD	GRENADA
BU	MYANMAR	GE	GEORGIA
BV	BOUVET ISLANDS	GF	FRENCH GUAYANA
BW	BOTSWANA	GH	GHANA
BY	BELARUS	GI	GIBRALTAR
BZ	BELIZE	GL	GREENLAND
CA	CANADA	GM	GAMBIA
CC	COCONUT ISLANDS	GN	GUINEA
CD	DEM. REP. CONGO	GP	GUADALUPE
CF	CENTRAL AFR.REP	GQ	EQUATORIAL GUIN
CG	CONGO	GR	GREECE
CH	SWITZERLAND	GS	S. SANDWICH INS
CI	IVORY COAST	GT	GUATEMALA
CK	COOK ISLANDS	GU	GUAM
CL	CHILE	GW	GUINEA-BISSAU
CM	CAMEROON	GY	GUYANA

CTRY	COUNTRY NAME
HK	HONG KONG
HM	HEARD/McDON.ISL
HN	HONDURAS
HR	CROATIA
HT	HAITI
HU	HUNGARY
ID	INDONESIA
IE	IRELAND
IL	ISRAEL
IN	INDIA
IO	BRIT.IND.OC.TER
IQ	IRAQ
IR	IRAN
IS	ICELAND
IT	ITALY
JM	JAMAICA
JO	JORDAN
JP	JAPAN
KE	KENYA
KG	KYRGYZSTAN
KH	CAMBODIA
KI	KIRIBATI
KM	COMOROS
KN	ST KITTS&NEVIS
KP	NORTH KOREA
KR	REP. OF KOREA
KW	KUWAIT
KY	CAYMAN ISLAND
KZ	KAZAKHSTAN
LA	LAOS
LB	LEBANON
LC	ST. LUCIA
LI	LIECHTENSTEIN
LK	SRI LANKA
LR	LIBERIA
LS	LESOTHO
LT	LITHUANIA
LU	LUXEMBOURG
LV	LATVIA
LY	LIBYA
MA	MOROCCO
MC	MONACO
MD	MOLDOVA
MG	MADAGASCAR
MH	MARSHALL ISLNDS
MK	MACEDONIA
ML	MALI
MN	MONGOLIA
MO	MACAU

CTRY	COUNTRY NAME
MP	N.MARIANA ISLND
MQ	MARTINIQUE
MR	MAURITANIA
MS	MONTSERRAT
MT	MALTA
MU	MAURITIUS
MV	MALDIVES
MW	MALAWI
MX	MEXICO
MY	MALAYSIA
MZ	MOZAMBIQUE
NA	NAMIBIA
NC	NEW CALEDONIA
NE	NIGER
NF	NORFOLK ISLANDS
NG	NIGERIA
NI	NICARAGUA
NL	NETHERLANDS
NO	NORWAY
NP	NEPAL
NR	NAURU
NU	NIUE
NZ	NEW ZEALAND
OM	OMAN
PA	PANAMA
PE	PERU
PF	FRENC.POLYNESIA
PG	PAPUA NW GUINEA
PH	PHILIPPINES
PK	PAKISTAN
PL	POLAND
PM	ST.PIER,MIQUEL.
PN	PITCAIRN ISLNDS
PR	PUERTO RICO
PS	PALESTINE
PT	PORTUGAL
PW	PALAU
PY	PARAGUAY
QA	QATAR
RE	REUNION
RO	ROMANIA
RU	RUSSIAN FED.
RW	RWANDA
SA	SAUDI ARABIA
SB	SOLOMON ISLANDS
SC	SEYCHELLES
SD	SUDAN
SE	SWEDEN
SG	SINGAPORE

CTRY	COUNTRY NAME
SH	ST. HELENA
SI	SLOVENIA
SJ	SVALBARD
SK	SLOVAKIA
SL	SIERRA LEONE
SM	SAN MARINO
SN	SENEGAL
SO	SOMALIA
SR	SURINAME
ST	S.TOME,PRINCIPE
SV	EL SALVADOR
SY	SYRIA
SZ	SWAZILAND
TC	TURKSH CAICOSIN
TD	CHAD
TF	FRENCH S.TERRIT
TG	TOGO
TH	THAILAND
THT	TAHITI
TJ	TAJIKISTAN
TK	TOKELAU ISLANDS
TM	TURKMENISTAN
TN	TUNISIA
TO	TONGA
TP	EAST TIMOR
TR	TURKEY

CTRY	COUNTRY NAME
TT	TRINIDAD,TOBAGO
TV	TUVALU
TW	TAIWAN R.O.C.
TZ	TANZANIA
UA	UKRAINE
UG	UGANDA
UM	MINOR OUTL.ISL.
US	UNITED STATES
UY	URUGUAY
UZ	UZBEKISTAN
VA	VATICAN CITY
VC	ST. VINCENT
VE	VENEZUELA
VG	BRIT.VIRGIN IS.
VI	AMER.VIRGIN IS.
VN	VIETNAM
VU	VANUATU
WF	WALLIS,FUTUNA
WS	SAMOA
YE	YEMEN
YT	MAYOTTE
YU	SERBIA &MTNEGRO
ZA	SOUTH AFRICA
ZM	ZAMBIA
ZW	ZIMBABWE