



Novelis North America (NNA)

Inbound EDI 856-Advance Ship Notice  
ANSI X12 v4010  
EDI Implementation Guide

**Author: Novelis B2B/EDI Department**

**EDI Direction: From Trading Partner to Novelis**

**Publication: Release 1.7 (10/20/2016)**

# Revision History

Version	Date	Author	Comments
1.0	04/23/2014	Catherine Munro	Initial issue
1.1	05/15/2015	Catherine Munro	<ul style="list-style-type: none"> <li>• Shipment Level – Added segment REF(EQ)</li> <li>• Shipment Level – Added elements TD503/TD302</li> <li>• Order Level – Modified Notes in PRF</li> <li>• Order Level – Modified Notes in REF(IL)</li> </ul>
1.2	7/8/2015	Catherine Munro	<ul style="list-style-type: none"> <li>• Header Level – Modified element for mandatory time – DTM03 '017'</li> </ul>
1.3	10/19/2015	Catherine Munro	<ul style="list-style-type: none"> <li>• Item level – MEA03. Additional Notes</li> </ul>
1.4	10/27/2015	Carlos Garcia	<ul style="list-style-type: none"> <li>• Header Level – Modified BSN01 to include Scrap ASNs</li> <li>• Order Level – Modified LIN segment notes and LIN03 notes to include scrap ASNS</li> <li>• Order Level – Modified REF02 notes for scrap ASNs</li> <li>• Item Level – Added PID segment for Alloy</li> <li>• Item Level – Modified REF*LT/BT to state as 'Mandatory'.</li> <li>• Item Level – Added Scrap ASN example</li> </ul>
1.5	12/07/2015	Catherine Munro	<ul style="list-style-type: none"> <li>• Corrected Novelis' ISA/GS IDs</li> </ul>
1.6	05/02/2016	Catherine Munro	<ul style="list-style-type: none"> <li>• TD503 – 3<sup>rd</sup> Party SCAC (SCAC of Logistics Carrier arranging the transportation)</li> <li>• TD302 – Actual SCAC of Transporting Carrier</li> </ul>
1.7	10/20/2016	Melissa Hansen	<ul style="list-style-type: none"> <li>• Revisions/Updates for Vendor ASN and corrections for Toller/Whse</li> </ul>

# Table of Contents

Revision History .....	2
Table of Contents .....	3
Document Overview .....	5
Technical Parameters: .....	6
Functional Acknowledgments: .....	6
How to contact Novelis EDI Support: .....	6
856 Ship Notice/Manifest .....	7
Segment: ST Transaction Set Header .....	<b>Error! Bookmark not defined.</b>
Segment: BSN Beginning Segment for Ship Notice .....	<b>Error! Bookmark not defined.</b>
Segment: DTM Date/Time Reference .....	<b>Error! Bookmark not defined.</b>
Segment: DTM Date/Time Reference .....	<b>Error! Bookmark not defined.</b>
Segment: HL Hierarchical Level (Shipment) .....	<b>Error! Bookmark not defined.</b>
Segment: MEA Measurements .....	<b>Error! Bookmark not defined.</b>
Segment: MEA Measurements .....	<b>Error! Bookmark not defined.</b>
Segment: TD1 Carrier Details (Quantity and Weight) .....	<b>Error! Bookmark not defined.</b>
Segment: TD5 Carrier Details (Routing Sequence/Transit Time) .....	<b>Error! Bookmark not defined.</b>
Segment: TD3 Carrier Details (Equipment) .....	<b>Error! Bookmark not defined.</b>
Segment: REF Reference Identification .....	<b>Error! Bookmark not defined.</b>
Segment: FOB F.O.B. Related Instructions .....	<b>Error! Bookmark not defined.</b>
Segment: N1 Name .....	<b>Error! Bookmark not defined.</b>
Segment: HL Hierarchical Level (Order) .....	<b>Error! Bookmark not defined.</b>
Segment: LIN Item Identification .....	<b>Error! Bookmark not defined.</b>
Segment: SN1 Item Detail (Order) .....	<b>Error! Bookmark not defined.</b>
Segment: PRF Purchase Order Reference (Order) .....	<b>Error! Bookmark not defined.</b>

Segment: REF Reference Identification .....	<b>Error! Bookmark not defined.</b>
Segment: HL Hierarchical Level (Item).....	<b>Error! Bookmark not defined.</b>
Segment: SN1 Item Detail (Item).....	<b>Error! Bookmark not defined.</b>
Segment: PID Product/Item Description.....	<b>Error! Bookmark not defined.</b>
Segment: MEA Measurements.....	<b>Error! Bookmark not defined.</b>
Segment: MEA Measurements.....	<b>Error! Bookmark not defined.</b>
Segment: MEA Measurements.....	<b>Error! Bookmark not defined.</b>
Segment: REF Reference Identification .....	<b>Error! Bookmark not defined.</b>
Segment: DTM Date/Time Reference .....	<b>Error! Bookmark not defined.</b>
Segment: CTT Transaction Totals.....	<b>Error! Bookmark not defined.</b>
Segment: SE Transaction Set Trailer .....	<b>Error! Bookmark not defined.</b>
Example of Document Structure .....	39
Single Order with multiple Handling Units.....	39
Multiple Order Levels with multiple Handling Units.....	41
Scrap shipment, single line .....	43

# Document Overview

This document outlines the Novelis requirements for the inbound 856 ANSI X12 4010 Advance Ship Notice transaction set.

The information in this document is confidential and distributed only to persons for whom it is intended. This information is for the exclusive use of the Novelis Company, its members, and business partners. This specification is subject to further changes at the discretion of Novelis Inc.

**Business Application:** Novelis Quality Management (SAP)

**EDI Usage:** Novelis Inbound 856 X12 4010

Business Rules:

An 856 Advance Ship Notice message is used to electronically communicate the contents of a shipment to another trading partner. It is sent in advance of a shipment arriving at the receiver's facility.

The inbound 856 ASN will include details:

- Shipment level information such as carrier information.
- Order level such as purchase order numbers
- Item level information such as product codes, items and quantities.

All items highlighted in grey in this document are notes added by Novelis and are not standard

## Validation:

Not all segments are necessary on every 856 so please refer to notes within the guide as well as X12 samples at the end of the document

## Technical Parameters:

Novelis is using the following values for Sender/Receiver IDs:

**Production** – ISA Qualifier: 09 / ISA Sender/Receiver ID: 0015049340011G  
GS Sender/Receiver ID: 0015049340011G

**Test** – ISA Qualifier: ZZ / ISA Sender/Receiver ID: NOVLSTEST  
GS Sender/Receiver ID: NOVLSTEST

Novelis default EDI delimiters characters and EBCDIC values:

1. Segment Terminator - punctuation mark “” (carriage return/line feed - Hex 0D0A)
2. Element Separator - punctuation mark “\*” (asterisk character - Hex 2A)
3. Sub-Element Separator - punctuation mark “~” (tilde character - Hex 7E)
4. Repetition Separator – punctuation mark “|” (pipe character – Hex 7C)
5. Decimal Indicator - punctuation mark “.” (dot character - Hex 2E)

Novelis Interchange Control Structure details can be found in the accompanying guide name  
'NVLS\_ICS4010\_Envelope.rtf'

## Functional Acknowledgments:

The 997 (Functional Acknowledgments) are used by Novelis to verify receipt of EDI documents sent to our suppliers. Novelis will also create the 997 to acknowledge receipt of your documents within 24 hours. If a 997 is not received for your EDI transmission(s), please contact Novelis EDI Support @ [EDI\\_Support@novelis.com](mailto:EDI_Support@novelis.com).

## How to contact Novelis EDI Support:

For answers to any questions regarding this Implementation Guide, contact Novelis EDI Support @ [EDI\\_Support@novelis.com](mailto:EDI_Support@novelis.com).

# 856 Ship Notice/Manifest

Functional Group ID=**SH**

## Introduction:

This Draft Standard for Trial Use 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, type of packaging, marking, carrier information, and configuration of goods within the transportation equipment. The transaction set enables the sender to describe the contents and configuration of a shipment in various levels of detail and provides an ordered flexibility to convey information. 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.

## Heading:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
M	010	ST	Transaction Set Header	M	1		
M	020	BSN	Beginning Segment for Ship Notice	M	1		
M	040	DTM	Date/Time Reference	M	10		
M	040	DTM	Date/Time Reference	M	10		

## Detail:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
LOOP ID - HL							200000
M	010	HL	Hierarchical Level (Shipment)	M	1		c1
M	080	MEA	Measurements	M	39		
Used	080	MEA	Measurements	O	39		
M	110	TD1	Carrier Details (Quantity and Weight)	M	20		
M	120	TD5	Carrier Details (Routing Sequence/Transit Time)	M	12		
M	130	TD3	Carrier Details (Equipment)	M	12		
M	150	REF	Reference Identification	M	>1		
Rec	210	FOB	F.O.B. Related Instructions	O	1		
LOOP ID - N1							200
M	220	N1	Name	M	1		
LOOP ID - HL							200000
M	010	HL	Hierarchical Level (Order)	M	1		
Must Use	020	LIN	Item Identification	O	1		
Must Use	030	SN1	Item Detail (Order)	O	1		
M	050	PRF	Purchase Order Reference (Order)	M	1		
M	150	REF	Reference Identification	M	>1		

			LOOP ID - HL	200000	
M	010	HL	Hierarchical Level (Item)	M	1
Used	030	SN1	Item Detail (Item)	O	1
Used	070	PID	Product/Item Description	O	200
M	080	MEA	Measurements	M	39
M	080	MEA	Measurements	M	39
Used	080	MEA	Measurements	O	39
M	150	REF	Reference Identification	M	>1
Used	200	DTM	Date/Time Reference	O	10

## Summary:

	<u>Pos.</u> <u>No.</u>	<u>Seg.</u> <u>ID</u>	<u>Name</u>	<u>Req.</u> <u>Des.</u>	<u>Max.Use</u>	<u>Loop</u> <u>Repeat</u>	<u>Notes and</u> <u>Comments</u>
M	010	CTT	Transaction Totals	M	1		n1
M	020	SE	Transaction Set Trailer	M	1		

## Transaction Set Notes

1. Number of line items (CTT01) is the accumulation of the number of HL segments. If used, hash total (CTT02) is the sum of the value of units shipped (SN102) for each SN1 segment.

## Transaction Set Comments

1. The HL segment is the only mandatory segment within the HL loop, and by itself, the HL segment has no meaning.



## Segment: **ST** Transaction Set Header

**Position:** 010  
**Loop:**  
**Level:** Heading  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To indicate the start of a transaction set and to assign a control number  
**Syntax Notes:**  
**Semantic Notes:** 1 The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).  
**Comments:**  
**Business Rules:** Variable Name: STST  
**Notes:** ST\*856\*0001

### Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	ST01	143	Transaction Set Identifier Code Code uniquely identifying a Transaction Set	M ID 3/3
			<b>856 Ship Notice/Manifest</b>	
M	ST02	329	Transaction Set Control Number Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M AN 4/9

## Segment: **BSN** Beginning Segment for Ship Notice

**Position:** 020  
**Loop:**  
**Level:** Heading  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To transmit identifying numbers, dates, and other basic data relating to the transaction set  
**Syntax Notes:** 1 If BSN07 is present, then BSN06 is required.  
**Semantic Notes:** 1 BSN03 is the date the shipment transaction set is created.  
2 BSN04 is the time the shipment transaction set is created.  
3 BSN06 is limited to shipment related codes.  
**Comments:** 1 BSN06 and BSN07 differentiate the functionality of use for the transaction set.  
**Notes:** BSN\*00\*56789\*20160817\*1500

### Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	BSN01	353	Transaction Set Purpose Code Code identifying purpose of transaction set <b>00</b> Original For Standard Shipments - BSN*00 <b>32</b> Recovery/Deduction For Scrap Shipments - BSN*32	M ID 2/2
M	BSN02	396	Shipment Identification A unique control number assigned by the original shipper to identify a specific shipment	M AN 2/30
M	BSN03	373	Date Date expressed as CCYYMMDD	M DT 8/8
M	BSN04	337	Time Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	M TM 4/8

## Segment: **DTM** Date/Time Reference

**Position:** 040  
**Loop:**  
**Level:** Heading  
**Usage:** Mandatory  
**Max Use:** 10  
**Purpose:** To specify pertinent dates and times  
**Syntax Notes:**

- 1 At least one of DTM02 DTM03 or DTM05 is required.
- 2 If DTM04 is present, then DTM03 is required.
- 3 If either DTM05 or DTM06 is present, then the other is required.

### Semantic Notes:

#### Comments:

**Notes:** *DTM\*011\*20160817\*1500\*GM*

### Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	DTM01	374	<b>Date/Time Qualifier</b> Code specifying type of date or time, or both date and time <i>Date and Time Shipment has been issued.</i> <b>011 Shipped</b>	<b>M ID 3/3</b>
M	DTM02	373	<b>Date</b> Date expressed as CCYYMMDD	<b>M DT 8/8</b>
Must Use	DTM03	337	<b>Time</b> Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	<b>O TM 4/8</b>
Must Use	DTM04	623	<b>Time Code</b> Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow <b>CT Central Time</b> <b>ET Eastern Time</b> <b>GM Greenwich Mean Time</b> <i>a.k.a. UTC (Coordinated Universal Time)</i> <b>MT Mountain Time</b> <b>PT Pacific Time</b> <b>UT Universal Time Coordinate</b> <i>a.k.a. GMT (Greenwich Mean Time)</i>	<b>O ID 2/2</b>

## Segment: **DTM** Date/Time Reference

**Position:** 040  
**Loop:**  
**Level:** Heading  
**Usage:** Mandatory  
**Max Use:** 10  
**Purpose:** To specify pertinent dates and times  
**Syntax Notes:**

- 1 At least one of DTM02 DTM03 or DTM05 is required.
- 2 If DTM04 is present, then DTM03 is required.
- 3 If either DTM05 or DTM06 is present, then the other is required.

### Semantic Notes:

#### Comments:

**Notes:** *DTM\*017\*20160820\*1600\*ET*

### Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	DTM01	374	<b>Date/Time Qualifier</b> Code specifying type of date or time, or both date and time <i>Date and Time Shipment is expected to be delivered</i> <b>017 Estimated Delivery</b>	<b>X ID 3/3</b>
Must Use	DTM02	373	<b>Date</b> Date expressed as CCYYMMDD	<b>X DT 8/8</b>
Must Use	DTM03	337	<b>Time</b> Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	<b>X TM 4/8</b>
Must Use	DTM04	623	<b>Time Code</b> Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow <b>CT Central Time</b> <b>ET Eastern Time</b> <b>GM Greenwich Mean Time</b> <i>a.k.a. UTC (Coordinated Universal Time)</i> <b>MT Mountain Time</b> <b>PT Pacific Time</b> <b>UT Universal Time Coordinate</b> <i>a.k.a. GMT (Greenwich Mean Time)</i>	<b>O ID 2/2</b>

## Segment: **HL** Hierarchical Level (Shipment)

**Position:** 010  
**Loop:** HL Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To identify dependencies among and the content of hierarchically related groups of data segments

### Syntax Notes:

### Semantic Notes:

- 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.  
The HL segment defines a top-down/left-right ordered structure.
  - 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.
  - 5 HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

**Notes:** HL\*1\*\*S

### Data Element Summary

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	HL01	628 Hierarchical ID Number	M AN 1/12
		A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	
M	HL03	735 Hierarchical Level Code	M ID 1/2
		Code defining the characteristic of a level in a hierarchical structure	
		<b>S</b>	<b>Shipment</b>

## Segment: **MEA** Measurements

<b>Position:</b>	080
<b>Loop:</b>	HL Mandatory
<b>Level:</b>	Detail
<b>Usage:</b>	Mandatory
<b>Max Use:</b>	39
<b>Purpose:</b>	To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)
<b>Syntax Notes:</b>	<ol style="list-style-type: none"> <li>1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.</li> <li>2 If MEA05 is present, then MEA04 is required.</li> <li>3 If MEA06 is present, then MEA04 is required.</li> <li>4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.</li> <li>5 Only one of MEA08 or MEA03 may be present.</li> </ol>
<b>Semantic Notes:</b>	1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
<b>Comments:</b>	1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.
<b>Notes:</b>	<i>Used for Net, Gross and Tare Weights</i>

### Example Segments:

```
MEA*WT*G*13572*LB
MEA*WT*N*12900*LB
MEA*WT*T*672
```

### Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	MEA01	737	Measurement Reference ID Code	M ID 2/2
			Code identifying the broad category to which a measurement applies	
			<b>WT</b> <b>Weights</b>	
Must Use	MEA02	738	Measurement Qualifier	X ID 1/3
			Code identifying a specific product or process characteristic to which a measurement applies	
			<b>G</b> <b>Gross Weight</b>	
			Mandatory - Summary Level Gross Weight (Total Net + Total Tare)	
			<b>N</b> <b>Actual Net Weight</b>	
			Mandatory - Summary Level Net Weight	
			<b>T</b> <b>Tare Weight</b>	
			Optional - Summary Level Tare Weight	
Must Use	MEA03	739	Measurement Value	X R 1/20
			The value of the measurement	
			Round to zero decimals	
Must Use	MEA04	C001	Composite Unit of Measure	X
			To identify a composite unit of measure (See Figures Appendix for examples of use)	
Must Use	C00101	355	Unit or Basis for Measurement Code	X ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
			<b>KG</b> <b>Kilogram</b>	
			<b>LB</b> <b>Pound</b>	

## Segment: **MEA** Measurements

<b>Position:</b>	080
<b>Loop:</b>	HL Mandatory
<b>Level:</b>	Detail
<b>Usage:</b>	Optional
<b>Max Use:</b>	39
<b>Purpose:</b>	To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)
<b>Syntax Notes:</b>	<ol style="list-style-type: none"> <li>1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.</li> <li>2 If MEA05 is present, then MEA04 is required.</li> <li>3 If MEA06 is present, then MEA04 is required.</li> <li>4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.</li> <li>5 Only one of MEA08 or MEA03 may be present.</li> </ol>
<b>Semantic Notes:</b>	1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
<b>Comments:</b>	1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.
<b>Notes:</b>	<p><i>Used for blanks or other non-coil parts.</i></p> <p><i>MEA*CT*NOR*750*EA</i></p>

### Data Element Summary

	<b>Ref.</b>	<b>Data</b>	<b>Name</b>	<b>Attributes</b>
	<b>Des.</b>	<b>Element</b>		
Used	MEA01	737	<b>Measurement Reference ID Code</b>	<b>O ID 2/2</b>
			Code identifying the broad category to which a measurement applies	
			<b>CT Counts</b>	
Used	MEA02	738	<b>Measurement Qualifier</b>	<b>O ID 1/3</b>
			Code identifying a specific product or process characteristic to which a measurement applies	
			<b>NOR Number of References</b>	
Used	MEA03	739	<b>Measurement Value</b>	<b>O R 1/20</b>
			The value of the measurement	
			<i>Round to zero decimals</i>	
Used	MEA04	C001	<b>Composite Unit of Measure</b>	<b>O</b>
			To identify a composite unit of measure (See Figures Appendix for examples of use)	
D	C00101	355	<b>Unit or Basis for Measurement Code</b>	<b>X ID 2/2</b>
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
			<b>EA Each</b>	

## Segment: **TD1** Carrier Details (Quantity and Weight)

**Position:** 110  
**Loop:** HL Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**Max Use:** 20  
**Purpose:** To specify the transportation details relative to commodity, weight, and quantity  
**Syntax Notes:**

- 1 If TD101 is present, then TD102 is required.
- 2 If TD103 is present, then TD104 is required.
- 3 If TD106 is present, then TD107 is required.
- 4 If either TD107 or TD108 is present, then the other is required.
- 5 If either TD109 or TD110 is present, then the other is required.

### Semantic Notes:

#### Comments:

#### Notes:

*Example Segments:*

*TD1\*LIF52\*23*

*TD1\*PLT90\*5*

*TD1\*COL52\*4*

### Data Element Summary

Ref.	Des.	Data Element	Name	Attributes
M	TD101	103	<b>Packaging Code</b>	M AN 3/5
			Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material; if the Data Element is used, then Part 1 is always required <i>This element consists of two parts. Part 1 is a 3 character Alpha code from the element code value list. Part 2 is a 2 digit value from the element code value list. The concatenation of the codes from Part 1 and Part 2 will be used as the 5 digit TD101 value. The codes below are the most commonly used but any valid X12 103 Code values will be accepted.</i>	
			<b>COL</b> <b>Coil</b>	
			<b>LIF</b> <b>Lifts</b>	
			<b>PLT</b> <b>Pallet</b>	
			<b>01</b> <b>Aluminum</b>	
			<b>52</b> <b>Iron or Steel</b>	
			<b>90</b> <b>Standard</b>	
M	TD102	80	<b>Lading Quantity</b>	M N0 1/7
			Number of units (pieces) of the lading commodity	
Used	TD106	187	<b>Weight Qualifier</b>	O ID 1/2
			Code defining the type of weight	
			<b>G</b> <b>Gross Weight</b>	
			<b>N</b> <b>Actual Net Weight</b>	
Used	TD107	81	<b>Weight</b>	X R 1/10
			Numeric value of weight	
Used	TD108	355	<b>Unit or Basis for Measurement Code</b>	X ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
			<b>01</b> <b>Actual Pounds</b>	
			<b>50</b> <b>Actual Kilograms</b>	
			<b>KG</b> <b>Kilogram</b>	
			<b>LB</b> <b>Pound</b>	



## Segment: **TD5** Carrier Details (Routing Sequence/Transit Time)

<b>Position:</b>	120
<b>Loop:</b>	HL Mandatory
<b>Level:</b>	Detail
<b>Usage:</b>	Mandatory
<b>Max Use:</b>	12
<b>Purpose:</b>	To specify the carrier and sequence of routing and provide transit time information
<b>Syntax Notes:</b>	<ol style="list-style-type: none"> <li>1 At least one of TD502 TD504 TD505 TD506 or TD512 is required.</li> <li>2 If TD502 is present, then TD503 is required.</li> <li>3 If TD507 is present, then TD508 is required.</li> <li>4 If TD510 is present, then TD511 is required.</li> <li>5 If TD513 is present, then TD512 is required.</li> <li>6 If TD514 is present, then TD513 is required.</li> <li>7 If TD515 is present, then TD512 is required.</li> </ol>
<b>Semantic Notes:</b>	1 TD515 is the country where the service is to be performed.
<b>Comments:</b>	1 When specifying a routing sequence to be used for the shipment movement in lieu of specifying each carrier within the movement, use TD502 to identify the party responsible for defining the routing sequence, and use TD503 to identify the actual routing sequence, specified by the party identified in TD502.
<b>Notes:</b>	<p><i>Example Segments:</i></p> <p>TD5*B*2*AGGP*M*Route Description*Status Code</p> <p>TD5*B*2*TITA*M</p>

### Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	TD501	133	<b>Routing Sequence Code</b>	M ID 1/2
			Code describing the relationship of a carrier to a specific shipment movement	
			<i>Either B or O Routing Sequence Code is required.</i>	
			<b>B</b> <b>Origin/Delivery Carrier (Any Mode)</b>	
			<b>O</b> <b>Origin Carrier (Air, Motor, or Ocean)</b>	
Must Use	TD502	66	<b>Identification Code Qualifier</b>	X ID 1/2
			Code designating the system/method of code structure used for Identification Code (67)	
			<b>2</b> <b>Standard Carrier Alpha Code (SCAC)</b>	
M	TD503	67	<b>Identification Code</b>	M AN 2/80
			Code identifying a party or other code	
			<i>NOTE: This is the SCAC of the entity that arranges the transportation. This can be a logistics company, warehouse or toller.</i>	
Must Use	TD504	91	<b>Transportation Method/Type Code</b>	X ID 1/2
			Code specifying the method or type of transportation for the shipment	
			<b>DW</b> <b>Driveaway, Truckaway, Towaway</b>	
			<b>DoD policy includes all three terms in one. They mean collectively, a transportation method whereby a vehicle is moved under its own power by a driver, or loaded into or upon a carrier's equipment, or towed by carrier's equipment</b>	
			<i>Used at Novelis to indicate a trip title change.</i>	
			<b>M</b> <b>Motor (Common Carrier)</b>	
Used	TD505	387	<b>Routing</b>	X AN 1/35
			Free-form description of the routing or requested routing for shipment, or the originating carrier's identity	

<b>Used</b>	<b>TD506</b>	<b>368</b>	<b>Shipment/Order Status Code</b>	<b>X ID 2/2</b>
			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	

## Segment: **TD3** Carrier Details (Equipment)

**Position:** 130  
**Loop:** HL Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**Max Use:** 12  
**Purpose:** To specify transportation details relating to the equipment used by the carrier  
**Syntax Notes:**

- 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.

### Semantic Notes:

#### Comments:

#### Notes:

*Example segments*

TD3\*TL\*AGGP\*1142  
 TD3\*TL\*\*53234

### Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	TD301	40	<b>Equipment Description Code</b> Code identifying type of equipment used for shipment <b>OT</b> <b>Open-top/flatbed trailer</b> <b>PT</b> <b>Protected Trailer</b> <b>TL</b> <b>Trailer (not otherwise specified)</b>	M   ID 2/2
Used	TD302	206	<b>Equipment Initial</b> Prefix or alphabetic part of an equipment unit's identifying number <i>NOTE - This is the SCAC of the actual carrier (if a 3rd party Carrier SCAC is used and is noted in the TD503, then send the SCAC of the 3rd party Carrier)</i>	O   AN 1/4
M	TD303	207	<b>Equipment Number (Container ID/Trailer ID)</b> Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred) <i>Trailer or Truck ID</i>	M   AN 1/10

## Segment: **REF** Reference Identification

**Position:** 150  
**Loop:** HL Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**Max Use:** >1  
**Purpose:** To specify identifying information  
**Syntax Notes:**

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:**

- 1 REF04 contains data relating to the value cited in REF02.

**Comments:**  
**Notes:**

```
REF*BM*8659501
REF*MB*86595
REF*PK*ABCDEF
REF*EQ*FB
```

### Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			<b>BM</b>	<b>Bill of Lading Number</b>
			<b>EQ</b>	<b>Equipment Number</b>
				<i>Use 'FB' in REF02 where REF01= EQ (see example noted in segment notes)</i>
			<b>MB</b>	<b>Master Bill of Lading</b>
			<b>PK</b>	<b>Packing List Number</b>
R	REF02	127	Reference Identification	O AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	

## Segment: **FOB** F.O.B. Related Instructions

<b>Position:</b>	210
<b>Loop:</b>	HL Mandatory
<b>Level:</b>	Detail
<b>Usage:</b>	Optional (Recommended)
<b>Max Use:</b>	1
<b>Purpose:</b>	To specify transportation instructions relating to shipment
<b>Syntax Notes:</b>	<ol style="list-style-type: none"> <li>1 If FOB03 is present, then FOB02 is required.</li> <li>2 If FOB04 is present, then FOB05 is required.</li> <li>3 If FOB07 is present, then FOB06 is required.</li> <li>4 If FOB08 is present, then FOB09 is required.</li> </ol>
<b>Semantic Notes:</b>	<ol style="list-style-type: none"> <li>1 FOB01 indicates which party will pay the carrier.</li> <li>2 FOB02 is the code specifying transportation responsibility location.</li> <li>3 FOB06 is the code specifying the title passage location.</li> <li>4 FOB08 is the code specifying the point at which the risk of loss transfers. This may be different than the location specified in FOB02/FOB03 and FOB06/FOB07.</li> </ol>
<b>Comments:</b>	
<b>Notes:</b>	<i>Example Segment:</i>  <b>FOB*PD</b>

Data Element Summary			
Ref.	Data	Name	Attributes
Des.	Element		
Used	FOB01	146 Shipment Method of Payment	O ID 2/2
		Code identifying payment terms for transportation charges	
		<b>CC</b>	<b>Collect</b>
		<b>PD</b>	<b>Prepaid by Processor</b>
			<b>Identifies the processor as the party responsible for transportation charges for the shipment</b>
		<b>TP</b>	<b>Third Party Pay</b>

## Segment: **N1** Name

<b>Position:</b>	220
<b>Loop:</b>	N1 Mandatory
<b>Level:</b>	Detail
<b>Usage:</b>	Mandatory
<b>Max Use:</b>	1
<b>Purpose:</b>	To identify a party by type of organization, name, and code
<b>Syntax Notes:</b>	<ol style="list-style-type: none"> <li>At least one of N102 or N103 is required.</li> <li>If either N103 or N104 is present, then the other is required.</li> </ol>
<b>Semantic Notes:</b>	
<b>Comments:</b>	<ol style="list-style-type: none"> <li>This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.</li> <li>N105 and N106 further define the type of entity in N101.</li> </ol>
<b>Notes:</b>	<i>Example segments:</i>

*N1\*ST\*Ship To Name\*1\*003456789*  
*N1\*ST\*Ship To Name\*9\*003456789001*  
*N1\*ST\*Ship To Name\*92\*14320*

### Data Element Summary

Ref.	Des.	Data Element	Name	Attributes
M	N101	98	<b>Entity Identifier Code</b>	<b>M ID 2/3</b>
			Code identifying an organizational entity, a physical location, property or an individual	
			<i>Ship to, Ship From and Supplier loops are MANDATORY (ST, SF, SU) Bill To, Manufacturer, Outside processor and Ultimate Intended Party are OPTIONAL (BT, MF, OU, MA)</i>	
			<b>BT</b>	<b>Bill-to-Party</b>
			<b>MA</b>	<b>Party for whom Item is Ultimately Intended</b>
			<b>MF</b>	<b>Manufacturer of Goods</b>
			<b>OU</b>	<b>Outside Processor</b>
				<b>A resource extraneous to primary material provider that performs additional material processing prior to delivery of the material to the primary provider's customer</b>
			<b>SF</b>	<b>Ship From</b>
			<b>ST</b>	<b>Ship To</b>
			<b>SU</b>	<b>Supplier/Manufacturer</b>
Must Use	N102	93	<b>Name</b>	<b>O AN 1/60</b>
			Free-form name	
Must Use	N103	66	<b>Identification Code Qualifier</b>	<b>X ID 1/2</b>
			Code designating the system/method of code structure used for Identification Code (67)	
			<b>1</b>	<b>D-U-N-S Number, Dun &amp; Bradstreet</b>
			<b>9</b>	<b>D-U-N-S+4, D-U-N-S Number with Four Character Suffix</b>
			<b>92</b>	<b>Assigned by Buyer or Buyer's Agent</b>
			<b>ZZ</b>	<b>Mutually Defined</b>
Must Use	N104	67	<b>Identification Code</b>	<b>X AN 2/80</b>
			Code identifying a party or other code	
			<i>This should be a partner DUNS Number unless mutually defined.</i>	

## Segment: **HL** Hierarchical Level (Order)

**Position:** 010  
**Loop:** HL Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To identify dependencies among and the content of hierarchically related groups of data segments

### Syntax Notes:

### Semantic Notes:

- 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.  
The HL segment defines a top-down/left-right ordered structure.
  - 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.
  - 5 HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

**Notes:** HL\*2\*1\*O

### Data Element Summary

Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	
M	HL01	628 Hierarchical ID Number	M	AN 1/12
		A unique number assigned by the sender to identify a particular data segment in a hierarchical structure		
M	HL02	734 Hierarchical Parent ID Number	M	AN 1/12
		Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to		
M	HL03	735 Hierarchical Level Code	M	ID 1/2
		Code defining the characteristic of a level in a hierarchical structure		
		O	Order	

## Segment: **LIN** Item Identification

<b>Position:</b>	020
<b>Loop:</b>	HL Mandatory
<b>Level:</b>	Detail
<b>Usage:</b>	Optional (Must Use)
<b>Max Use:</b>	1
<b>Purpose:</b>	To specify basic item identification data
<b>Syntax Notes:</b>	<b>1</b> If either LIN04 or LIN05 is present, then the other is required. <b>2</b> If either LIN06 or LIN07 is present, then the other is required. <b>3</b> If either LIN08 or LIN09 is present, then the other is required. <b>4</b> If either LIN10 or LIN11 is present, then the other is required. <b>5</b> If either LIN12 or LIN13 is present, then the other is required. <b>6</b> If either LIN14 or LIN15 is present, then the other is required. <b>7</b> If either LIN16 or LIN17 is present, then the other is required. <b>8</b> If either LIN18 or LIN19 is present, then the other is required. <b>9</b> If either LIN20 or LIN21 is present, then the other is required. <b>10</b> If either LIN22 or LIN23 is present, then the other is required. <b>11</b> If either LIN24 or LIN25 is present, then the other is required. <b>12</b> If either LIN26 or LIN27 is present, then the other is required. <b>13</b> If either LIN28 or LIN29 is present, then the other is required. <b>14</b> If either LIN30 or LIN31 is present, then the other is required.
<b>Semantic Notes:</b>	<b>1</b> LIN01 is the line item identification
<b>Comments:</b>	<b>1</b> See the Data Dictionary for a complete list of IDs. <b>2</b> LIN02 through LIN31 provide for fifteen different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.
<b>Notes:</b>	<b>Example Segments:</b> LIN**BP*FL34 15109A68 551 (Standard Shipment) LIN**BP*SCRAP (Scrap Shipment) LIN**BP*3000007147*VO*4390094049*VN*000010 LIN**VO*4390086255*VN*10*VP*180264430

Data Element Summary				
	Ref. Des.	Data Element	Name	Attributes
Must Use	LIN02	235	<b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) <b>BP Buyer's Part Number</b>	C ID 2/2
Must Use	LIN03	234	<b>Product/Service ID</b> Identifying number for a product or service <i>For Standard Shipments, LIN03 contains the Novelis Material Number For Scrap Shipments, LIN03 contains "SCRAP" (without quotes)</i>	C AN 1/48
Used	LIN04	235	<b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) <b>VO Vendor's Order Number</b>	O ID 2/2
Used	LIN05	234	<b>Product/Service ID</b> Identifying number for a product or service	C AN 1/48
Used	LIN06	235	<b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) <b>VP Vendor's (Seller's) Part Number</b>	C ID 2/2
Used	LIN07	234	<b>Product/Service ID</b> Identifying number for a product or service	X AN 1/48



## Segment: **SN1** Item Detail (Order)

**Position:** 030  
**Loop:** HL Mandatory  
**Level:** Detail  
**Usage:** Optional (Must Use)  
**Max Use:** 1  
**Purpose:** To specify line-item detail relative to shipment  
**Syntax Notes:** 1 If either SN105 or SN106 is present, then the other is required.  
**Semantic Notes:** 1 SN101 is the ship notice line-item identification.  
**Comments:** 1 SN103 defines the unit of measurement for both SN102 and SN104.  
**Notes:** SN1\*\*500\*EA

### Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>										
	<u>Des.</u>	<u>Element</u>												
M	SN102	382	<b>Number of Units Shipped</b> Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set	<b>M R 1/10</b>										
M	SN103	355	<b>Units of Base of Measurement Code</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken <i>Either EA or 01 can be used with the respective quantity or weight.</i> <table><tr><td><b>01</b></td><td><b>Actual Pounds</b></td></tr><tr><td><b>50</b></td><td><b>Actual Kilograms</b></td></tr><tr><td><b>KG</b></td><td><b>Kilogram</b></td></tr><tr><td><b>LB</b></td><td><b>Pound</b></td></tr><tr><td><b>PF</b></td><td><b>Pallet (Lift)</b></td></tr></table>	<b>01</b>	<b>Actual Pounds</b>	<b>50</b>	<b>Actual Kilograms</b>	<b>KG</b>	<b>Kilogram</b>	<b>LB</b>	<b>Pound</b>	<b>PF</b>	<b>Pallet (Lift)</b>	<b>M ID 2/2</b>
<b>01</b>	<b>Actual Pounds</b>													
<b>50</b>	<b>Actual Kilograms</b>													
<b>KG</b>	<b>Kilogram</b>													
<b>LB</b>	<b>Pound</b>													
<b>PF</b>	<b>Pallet (Lift)</b>													
Used	SN104	646	<b>Quantity Shipped To Date</b> Number of units shipped to date	<b>O R 1/15</b>										

## Segment: **PRF** Purchase Order Reference (Order)

**Position:** 050  
**Loop:** HL Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To provide reference to a specific purchase order  
**Syntax Notes:**  
**Semantic Notes:** 1 PRF04 is the date assigned by the purchaser to purchase order.  
**Comments:**  
**Notes:** *PRF01 should contain the Novelis provided Order Number authorized for the shipment.*

### Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	PRF01	324	Purchase Order Number (PO) Identifying number for Purchase Order assigned by the buyer/purchaser	X AN 1/22
Used	PRF04	373	Date Date expressed as CCYYMMDD	O DT 8/8

## Segment: **REF** Reference Identification

**Position:** 150  
**Loop:** HL Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**Max Use:** >1  
**Purpose:** To specify identifying information  
**Syntax Notes:**

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:**

- 1 REF04 contains data relating to the value cited in REF02.

**Comments:**  
**Business Rules:**

1. ALWAYS set Usage to 'Used'

**Notes:** *Provide the Novelis provided Order Item number associated with the order provided in the PRF01.*

*Example segments:*

*REF\*IL\*110*

*REF\*IL\*NA (Scrap shipment)*

*REF\*IL\*13689-110*

### Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification <b>IL</b>	<b>M ID 2/3</b>
			<b>Internal Order Number</b> <i>Novelis' Sales Order or PO line number</i>	
Must Use	REF02	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	<b>X AN 1/30</b>

## Segment: **HL** Hierarchical Level (Item)

**Position:** 010  
**Loop:** HL Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To identify dependencies among and the content of hierarchically related groups of data segments

### Syntax Notes:

### Semantic Notes:

- 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.  
The HL segment defines a top-down/left-right ordered structure.
  - 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.
  - 5 HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

**Notes:** *HL\*3\*2\*I*

### Data Element Summary

Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	
M	HL01	628 Hierarchical ID Number	M	AN 1/12
		A unique number assigned by the sender to identify a particular data segment in a hierarchical structure		
M	HL02	734 Hierarchical Parent ID Number	M	AN 1/12
		Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to		
M	HL03	735 Hierarchical Level Code	M	ID 1/2
		Code defining the characteristic of a level in a hierarchical structure		
		I	Item	

## Segment: **SN1** Item Detail (Item)

**Position:** 030  
**Loop:** HL Mandatory  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To specify line-item detail relative to shipment  
**Syntax Notes:** 1 If either SN105 or SN106 is present, then the other is required.  
**Semantic Notes:** 1 SN101 is the ship notice line-item identification.  
**Comments:** 1 SN103 defines the unit of measurement for both SN102 and SN104.  
**Notes:**

### *Example Segments:*

SN1\*\*1\*PF (pallet lifts when shipping in pallet/lifts)  
 SN1\*4095\*01 (Net pounds - shipped weight)

### Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	SN102	382	<b>Number of Units Shipped</b>	<b>C R 1/10</b>
			Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set	
Must Use	SN103	355	<b>Unit or Basis for Measurement Code</b>	<b>X ID 2/2</b>
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
			<b>01</b>	<b>Actual Pounds</b>
			<b>50</b>	<b>Actual Kilograms</b>
			<b>KG</b>	<b>Kilogram</b>
			<b>LB</b>	<b>Pound</b>
			<b>PF</b>	<b>Pallet (Lift)</b>

## Segment: **PID** Product/Item Description

<b>Position:</b>	070
<b>Loop:</b>	HL Mandatory
<b>Level:</b>	Detail
<b>Usage:</b>	Optional
<b>Max Use:</b>	200
<b>Purpose:</b>	To describe a product or process in coded or free-form format
<b>Syntax Notes:</b>	<ol style="list-style-type: none"> <li>1 If PID04 is present, then PID03 is required.</li> <li>2 At least one of PID04 or PID05 is required.</li> <li>3 If PID07 is present, then PID03 is required.</li> <li>4 If PID08 is present, then PID04 is required.</li> <li>5 If PID09 is present, then PID05 is required.</li> </ol>
<b>Semantic Notes:</b>	<ol style="list-style-type: none"> <li>1 Use PID03 to indicate the organization that publishes the code list being referred to.</li> <li>2 PID04 should be used for industry-specific product description codes.</li> <li>3 PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate.</li> <li>4 PID09 is used to identify the language being used in PID05.</li> </ol>
<b>Comments:</b>	<ol style="list-style-type: none"> <li>1 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.</li> <li>2 Use PID06 when necessary to refer to the product surface or layer being described in the segment.</li> <li>3 PID07 specifies the individual code list of the agency specified in PID03.</li> </ol>
<b>Notes:</b>	<p><i>Example Segments:</i></p> <pre>PID*S*55***X626 PID*S*16***T4 PID*S*08***HC3B 26107K40 370</pre>

### Data Element Summary

	<b>Ref.</b>	<b>Data</b>	<b>Attributes</b>
	<b>Des.</b>	<b>Element Name</b>	
<b>M</b>	<b>PID01</b>	<b>349 Item Description Type</b>	<b>M ID 1/1</b>
		Code indicating the format of a description	
		<b>S Structured (From Industry Code List)</b>	
<b>Used</b>	<b>PID02</b>	<b>750 Product/Process Characteristic Code</b>	<b>O ID 2/3</b>
		Code identifying the general class of a product or process characteristic	
		<b>08 Product</b>	
		<b>16 Temper</b>	
		<b>55 Alloy</b>	
<b>R</b>	<b>PID05</b>	<b>352 Description</b>	<b>O AN 1/80</b>
		A free-form description to clarify the related data elements and their content	

## Segment: **MEA** Measurements

<b>Position:</b>	080
<b>Loop:</b>	HL Mandatory
<b>Level:</b>	Detail
<b>Usage:</b>	Mandatory
<b>Max Use:</b>	39
<b>Purpose:</b>	To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)
<b>Syntax Notes:</b>	<ol style="list-style-type: none"> <li>1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.</li> <li>2 If MEA05 is present, then MEA04 is required.</li> <li>3 If MEA06 is present, then MEA04 is required.</li> <li>4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.</li> <li>5 Only one of MEA08 or MEA03 may be present.</li> </ol>
<b>Semantic Notes:</b>	1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
<b>Comments:</b>	1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.
<b>Notes:</b>	<i>Mechanical Properties such as length, width, and gauge.</i>

### Example Segments:

MEA\*PD\*GG\*0.1378\*IN (Up to 4 decimals)  
 MEA\*PD\*LN\*2546\*FT (Round to zero decimals)  
 MEA\*PD\*DN\*0.09770\*PJ (Up to 4 decimals)  
 MEA\*PD\*TH\*.0315\*ED  
 MEA\*PD\*WD\*9.2520\*IN (Up to 4 decimals)  
 MEA\*PD\*OD\*60\*ED  
 MEA\*PD\*ID\*24\*ED

### Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	MEA01	737	Measurement Reference ID Code	M ID 2/2
			Code identifying the broad category to which a measurement applies	
			<b>PD Physical Dimensions</b>	
Must Use	MEA02	738	Measurement Qualifier	C ID 1/3
			Code identifying a specific product or process characteristic to which a measurement applies	
			<b>DN Density</b>	
			<b>GG Gauge</b>	
			<b>ID Inside Diameter</b>	
			<b>LN Length</b>	
			<b>OD Outside Diameter</b>	
			<b>TH Thickness</b>	
			<b>WD Width</b>	
Must Use	MEA03	739	Measurement Value	X R 1/20
			The value of the measurement	
Must Use	MEA04	C001	Composite Unit of Measure	C
			To identify a composite unit of measure (See Figures Appendix for examples of use)	
			When MEA01= PD and MEA02 ='DN' for Density, use PJ MEA02 ='GG' for Gauge, use IN or ED	

*MEA02 = 'LN' for Length, use FT, ED or LF*  
*MEA02 = 'WD' for Width, use IN or ED*

Must Use	C00101	355	Unit or Basis for Measurement Code	C	ID 2/2
Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken					
			ED	Inches, Decimal--Nominal	
			FT	Foot	
			IN	Inch	
			LF	Linear Foot	
			PJ	Pounds, Decimal - Pounds per Square Foot - Pound Gage	



## Segment: **MEA** Measurements

<b>Position:</b>	080
<b>Loop:</b>	HL Mandatory
<b>Level:</b>	Detail
<b>Usage:</b>	Mandatory
<b>Max Use:</b>	39
<b>Purpose:</b>	To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)
<b>Syntax Notes:</b>	<ol style="list-style-type: none"> <li>1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.</li> <li>2 If MEA05 is present, then MEA04 is required.</li> <li>3 If MEA06 is present, then MEA04 is required.</li> <li>4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.</li> <li>5 Only one of MEA08 or MEA03 may be present.</li> </ol>
<b>Semantic Notes:</b>	1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
<b>Comments:</b>	1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.
<b>Notes:</b>	<p><i>Actual Gross and Net weight segments are required.</i></p> <p>MEA*WT*G*4144*01 MEA*WT*N*4095*01</p>

### Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	MEA01	737	Measurement Reference ID Code	M ID 2/2
			Code identifying the broad category to which a measurement applies	
			<b>WT</b> <b>Weights</b>	
Used	MEA02	738	Measurement Qualifier	C ID 1/3
			Code identifying a specific product or process characteristic to which a measurement applies	
			<b>G</b> <b>Gross Weight</b>	
			<i>Item Gross Weight</i>	
			<b>N</b> <b>Actual Net Weight</b>	
			<i>Item Net Weight</i>	
M	MEA03	739	Measurement Value	M R 1/20
			The value of the measurement	
Must Use	MEA04	C001	Composite Unit of Measure	X
			To identify a composite unit of measure (See Figures Appendix for examples of use)	
M	C00101	355	Unit or Basis for Measurement Code	M ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
			<i>Actual weights are mandatory. Other values are optional.</i>	
			<b>01</b> <b>Actual Pounds</b>	
			<b>24</b> <b>Theoretical Pounds</b>	
			<b>50</b> <b>Actual Kilograms</b>	
			<b>53</b> <b>Theoretical Kilograms</b>	
			<b>KG</b> <b>Kilogram</b>	
			<b>LB</b> <b>Pound</b>	

## Segment: **MEA** Measurements

<b>Position:</b>	080
<b>Loop:</b>	HL Mandatory
<b>Level:</b>	Detail
<b>Usage:</b>	Optional
<b>Max Use:</b>	39
<b>Purpose:</b>	To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)
<b>Syntax Notes:</b>	<ol style="list-style-type: none"> <li>1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.</li> <li>2 If MEA05 is present, then MEA04 is required.</li> <li>3 If MEA06 is present, then MEA04 is required.</li> <li>4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.</li> <li>5 Only one of MEA08 or MEA03 may be present.</li> </ol>
<b>Semantic Notes:</b>	1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
<b>Comments:</b>	1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.
<b>Notes:</b>	<p><i>Used for Piece counts.</i></p> <p><i>When Shipping Pieces (blanks, etc.), provide the piece count for this shipment line item.</i>  <b>MEA*CT*NL*375*PC</b></p> <p><i>When shipping Coils, provide '1' in MEA03</i>  <b>MEA*CT*NL*1*PC</b></p>

### Data Element Summary

	<b>Ref.</b>	<b>Data</b>	<b>Name</b>	<b>Attributes</b>
	<b>Des.</b>	<b>Element</b>		
M	MEA01	737	<b>Measurement Reference ID Code</b>	<b>M ID 2/2</b>
			Code identifying the broad category to which a measurement applies	
			<b>CT</b>	<b>Counts</b>
			<b>NC</b>	<b>Net Change</b>
Used	MEA02	738	<b>Measurement Qualifier</b>	<b>C ID 1/3</b>
			Code identifying a specific product or process characteristic to which a measurement applies	
			<b>NL</b>	<b>Number per Lift</b>
Used	MEA03	739	<b>Measurement Value</b>	<b>O R 1/20</b>
			The value of the measurement	
Must Use	MEA04	C001	<b>Composite Unit of Measure</b>	<b>X</b>
			To identify a composite unit of measure (See Figures Appendix for examples of use)	
M	C00101	355	<b>Unit or Basis for Measurement Code</b>	<b>M ID 2/2</b>
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
			<b>PC</b>	<b>Piece</b>

## Segment: **REF** Reference Identification

<b>Position:</b>	150
<b>Loop:</b>	HL Mandatory
<b>Level:</b>	Detail
<b>Usage:</b>	Mandatory
<b>Max Use:</b>	>1
<b>Purpose:</b>	To specify identifying information
<b>Syntax Notes:</b>	<ol style="list-style-type: none"> <li>1 At least one of REF02 or REF03 is required.</li> <li>2 If either C04003 or C04004 is present, then the other is required.</li> <li>3 If either C04005 or C04006 is present, then the other is required.</li> </ol>
<b>Semantic Notes:</b>	1 REF04 contains data relating to the value cited in REF02.
<b>Comments:</b>	
<b>Notes:</b>	<p>REF01 of LS, SE, LT and BT are MANDATORY.  REF01 of LT, Q4 or BT are Optional.</p> <p>REF*LS* Novelis' Original Coil ID  REF*SE* Current Handling Unit  LEF*LT* Original Handling Unit  REF*BT* Vendors Batch Number</p>

### Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification	<b>X</b> ID 2/3
			<b>BT</b> <b>Batch Number</b> <i>Mandatory - REF*BT - Vendor Batch Number</i>	
			<b>LS</b> <b>Bar-Coded Serial Number</b> <i>Mandatory - REF*LS - Novelis' Original Coil ID</i>	
			<b>LT</b> <b>Lot Number</b> <i>Mandatory - REF*LT - Novelis' Original Handling Unit</i>	
			<b>Q4</b> <b>Prior Identifier Number</b> <i>Optional - REF*Q4 - Previous Handling Unit.</i>	
			<b>SE</b> <b>Serial Number</b> <i>Mandatory - REF*SE - Current Handling Unit</i>	
Must Use	REF02	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	<b>X</b> AN 1/30

## Segment: **DTM** Date/Time Reference

**Position:** 200  
**Loop:** HL Mandatory  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 10  
**Purpose:** To specify pertinent dates and times  
**Syntax Notes:**

- 1 At least one of DTM02 DTM03 or DTM05 is required.
- 2 If DTM04 is present, then DTM03 is required.
- 3 If either DTM05 or DTM06 is present, then the other is required.

### Semantic Notes:

#### Comments:

**Notes:** *DTM\*206\*20160415\*2315*

### Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Used	DTM01	374	<b>Date/Time Qualifier</b> Code specifying type of date or time, or both date and time <b>206</b>	<b>X ID 3/3</b>
			<b>Status (Outside Processor)</b> <b>When outside processor established the status of the material</b>	
Must Use	DTM02	373	<b>Date</b> Date expressed as CCYYMMDD	<b>X DT 8/8</b>
Used	DTM03	337	<b>Time</b> Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	<b>X TM 4/8</b>
Must Use	DTM04	623	<b>Time Code</b> Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow <b>CT</b> <b>ET</b> <b>GM</b> <b>MT</b> <b>PT</b> <b>UT</b>	<b>O ID 2/2</b> <b>Central Time</b> <b>Eastern Time</b> <b>Greenwich Mean Time</b> <i>a.k.a. UTC (Coordinated Universal Time)</i> <b>Mountain Time</b> <b>Pacific Time</b> <b>Universal Time Coordinate</b> <i>a.k.a. GMT (Greenwich Mean Time)</i>

## Segment: **CTT** Transaction Totals

<b>Position:</b>	010
<b>Loop:</b>	
<b>Level:</b>	Summary
<b>Usage:</b>	Mandatory
<b>Max Use:</b>	1
<b>Purpose:</b>	To transmit a hash total for a specific element in the transaction set
<b>Syntax Notes:</b>	<b>1</b> If either CTT03 or CTT04 is present, then the other is required. <b>2</b> If either CTT05 or CTT06 is present, then the other is required.
<b>Semantic Notes:</b>	
<b>Comments:</b>	<b>1</b> This segment is intended to provide hash totals to validate transaction completeness and correctness.
<b>Notes:</b>	<i>CTT*4*2</i>

### Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	CTT01	354	<b>Number of Line Items</b> Total number of line items in the transaction set	<b>M N0 1/6</b>
Used	CTT02	347	<b>Hash Total</b> Sum of values of the specified data element. All values in the data element will be summed without regard to decimal points (explicit or implicit) or signs. Truncation will occur on the left most digits if the sum is greater than the maximum size of the hash total of the data element.	<b>O R 1/10</b>

## Segment: **SE** Transaction Set Trailer

**Position:** 020

**Loop:**

**Level:** Summary

**Usage:** Mandatory

**Max Use:** 1

**Purpose:** To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)

**Syntax Notes:**

**Semantic Notes:**

**Comments:** 1 SE is the last segment of each transaction set.

**Notes:** SE\*36\*0001

### Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	SE01	96	Number of Included Segments Total number of segments included in a transaction set including ST and SE segments	M N0 1/10
M	SE02	329	Transaction Set Control Number Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M AN 4/9

# Example of Document Structure

## Single Order with multiple Handling Units

### Header

ST\*856\*0001  
BSN\*00\*12345\*20140717\*1509  
DTM\*011\*20140717\*1509\*CT  
DTM\*017\*20140717

### Shipment Level

HL\*01\*\*S  
MEA\*WT\*G\*13572\*LB  
MEA\*WT\*N\*8200\*LB  
MEA\*CT\*NOR\*750\*EA  
TD1\*LIF52\*3  
TD5\*B\*02\*AGGP\*M  
TD3\*TL\*\*1142  
REF\*BM\*8659501  
REF\*MB\*86595  
REF\*PK\*ABCDEF  
REF\*EQ\*FB  
FOB\*PD  
N1\*ST\*Ship to NAME\*1\*005356662  
N1\*SF\*Ship from NAME\*1\*039630926  
N1\*SU\*Supplier NAME\*1\*241003755

### Order Level

HL\*02\*01\*O  
LIN\*\*BP\*B7020FBA  
SN1\*\*750\*EA  
PRF\*6500003682\*\*\*20140403  
REF\*IL\*13689-110

### Item Level Detail

HL\*03\*02\*I  
SN1\*\*1\*PF  
MEA\*PD\*GG\*12\*IN  
MEA\*PD\*LN\*34\*FT  
MEA\*WT\*N\*4095\*LB  
MEA\*WT\*G\*4144\*LB  
MEA\*CT\*NL\*375\*PC  
REF\*LS\*(Novelis' Original Coil ID)  
REF\*SE\*(Current Handling Unit)  
HL\*04\*02\*I  
SN1\*\*1\*PF  
MEA\*PD\*GG\*12\*IN

MEA\*PD\*LN\*34\*FT  
MEA\*WT\*N\*4105\*LB  
MEA\*WT\*G\*4144\*LB  
MEA\*CT\*NL\*375\*PC  
REF\*LS\*(Novelis' Original Coil ID)  
REF\*SE\*(Current Handling Unit)

Summary

CTT\*4\*752  
SE\*36\*0001



## Multiple Order Levels with multiple Handling Units

### Header

ST\*856\*0001  
BSN\*00\*12345\*20140717\*1509  
DTM\*011\*20140717\*1509\*CT  
DTM\*017\*20140717

### Shipment Level

HL\*01\*\*S  
MEA\*WT\*G\*13572\*LB  
MEA\*WT\*N\*8200\*LB  
MEA\*CT\*NOR\*750\*PC  
TD1\*PLT90\*2  
TD5\*B\*02\*AGGP\*M  
TD3\*TL\*\*1142  
REF\*BM\*8659501  
REF\*MB\*86595  
REF\*PK\*ABCDEF  
FOB\*PD  
N1\*ST\*Ship To Name\*1\*005356662  
N1\*SF\*Ship From Name\*1\*039630926  
N1\*SU\*Supplier Name\*1\*241003755

### Order Level

HL\*02\*01\*O  
LIN\*\*BP\*B7020FBA  
SN1\*\*375\*EA  
PRF\*6500003682\*\*\*20140403  
REF\*IL\*13689-110

### Item Level Detail

HL\*03\*02\*I  
SN1\*\*1\*PF  
MEA\*PD\*GG\*12\*IN  
MEA\*PD\*LN\*34\*FT  
MEA\*WT\*N\*4095\*LB  
MEA\*WT\*G\*4144\*LB  
MEA\*CT\*NL\*375\*PC  
REF\*LS\*(Novelis' Original Coil ID)  
REF\*SE\*(Current Handling Unit)

### Order Level

HL\*04\*01\*O  
LIN\*\*BP\*B7020FBA-1  
SN1\*\*375\*EA  
PRF\*6500003683\*\*\*20140403  
REF\*IL\*13690-110

Item Level Detail

HL\*05\*02\*I

SN1\*\*1\*PF

MEA\*PD\*GG\*12\*IN

MEA\*PD\*LN\*34\*FT

MEA\*WT\*N\*4105\*LB

MEA\*WT\*G\*4144\*LB

MEA\*CT\*NL\*375\*PC

REF\*LS\*(Novelis' Original Coil ID)

REF\*SE\*(Current Handling Unit)

Summary

CTT\*5\*752

SE\*55\*0001

## Scrap shipment, single line

### Header

ST\*856\*0001  
BSN\*32\*12345\*20140717\*1509  
DTM\*011\*20140717\*1509\*CT  
DTM\*017\*20140717

### Shipment Level

HL\*01\*\*S  
MEA\*WT\*G\*13572\*LB  
MEA\*WT\*N\*8200\*LB  
MEA\*CT\*NOR\*1\*PC  
TD1\*LIF52\*3  
TD5\*B\*02\*AGGP\*M  
TD3\*TL\*\*1142  
REF\*BM\*8659501  
REF\*MB\*86595  
REF\*EQ\*FB  
FOB\*PD  
N1\*ST\*Ship to NAME\*1\*005356662  
N1\*SF\*Ship from NAME\*1\*039630926  
N1\*SU\*Supplier NAME\*1\*241003755

### Order Level

HL\*02\*01\*O  
LIN\*\*BP\*SCRAP  
REF\*IL\*NA

### Item Level Detail

HL\*03\*02\*I  
SN1\*\*8200\*LB  
PID\*S\*55\*\*\*X615  
MEA\*PD\*GG\*12\*IN  
MEA\*PD\*TH\*0.0354\*IN  
MEA\*PD\*WD\*68\*IN  
MEA\*PD\*LN\*0\*FT  
MEA\*WT\*N\*4095\*LB  
MEA\*WT\*G\*4144\*LB  
MEA\*CT\*NL\*1\*PC  
REF\*LS\*(Original Coil ID)  
REF\*SE\*(Current Handling Unit)  
REF\*BT\*(Vendor Batch Number)  
REF\*LT\*(Original Handling Unit)

### Summary

CTT\*3\*752

## Vendor Shipment to Novelis Plant

### Header

ST\*856\*0001  
BSN\*00\*ABC01\*20161006\*095500  
DTM\*011\*20160308\*090100\*CT  
DTM\*017\*20160308

### Shipment Level

HL\*01\*\*S  
MEA\*PD\*G\*24570\*LB  
MEA\*PD\*N\*24540\*LB  
TD1\*LIF52\*1  
TD5\*B\*2\*JRCS\*M  
TD3\*TL\*\*48258A  
REF\*BM\*ABC01  
N1\*ST\*NOVELIS INC\*1\*003980216  
N1\*SF\*VENDOR NAME\*1\*130400799

### Order Level

HL\*02\*01\*O  
LIN\*1\*BP\*7000012290\*VO\*80620HB\*ZZ\*BOM  
PRF\*4390095196\*\*\*20161006  
REF\*IL\*10

### Item Level Detail

HL\*03\*02\*I  
PID\*S\*55\*\*\*5052  
PID\*S\*16\*\*\*F  
MEA\*PD\*GG\*0.148\*IN  
MEA\*PD\*WD\*61.375\*IN  
MEA\*PD\*G\*24570\*LB  
MEA\*PD\*N\*24540\*LB  
MEA\*PD\*LN\*2297\*FT  
REF\*LT\*9003010  
REF\*SE\*LGPN1E  
REF\*BT\*9003010000  
REF\*LS\*9003010000

### Summary

CTT\*3\*0  
SE\*31\*0001