# 210 Motor Carrier Freight Details and Invoice

**Functional Group ID:** IM

## Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Motor Carrier Freight Details and Invoice Transaction Set (210) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to provide detail information for charges for services rendered by a motor carrier. It is used both as a motor carrier invoice to request payment or as details pertaining to motor freight shipment(s) charges.

## Heading:

<table>
<thead>
<tr>
<th>Pos.</th>
<th>Seg.</th>
<th>Req.</th>
<th>Loop</th>
<th>Notes and Comments</th>
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## Detail:

### LOOP ID - 0300

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<tr>
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<td>L5</td>
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3M-IB210-4010 (004010) 1 August 11, 2017
Transaction Set Notes

1. Loops 0300, 0305, 0310 and 0320 shall only be used to identify all stop-off locations and associated data for loading and unloading of freight with the exception of the original stop-off location (shipper) for truckload carriers. The original stop-off location (shipper) shall be transmitted in loop 0100.
Segment: **ST** Transaction Set Header

Position: 010

Loop: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of a transaction set and to assign a control number

Syntax 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).

Semantic Notes: 1

Comments:

Business Rules: Variable Name: STST

<table>
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<tr>
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<th>Data Element</th>
<th>Name</th>
<th>Attributes</th>
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<tr>
<td>M ST01</td>
<td>143</td>
<td>Transaction Set Identifier Code</td>
<td>M ID 3/3</td>
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<tr>
<td></td>
<td></td>
<td>Code uniquely identifying a Transaction Set</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>210 Motor Carrier Freight Details and Invoice</td>
<td></td>
</tr>
<tr>
<td>M ST02</td>
<td>329</td>
<td>Transaction Set Control Number</td>
<td>M AN 4/9</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set</td>
<td></td>
</tr>
</tbody>
</table>
**Segment:** B3 Beginning Segment for Carrier's Invoice  
**Position:** 020  
**Loop:**  
**Level:** Heading  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To transmit basic data relating to the carrier's invoice  
**Syntax Notes:** 1 If either B309 or B310 is present, then the other is required.  
**Semantic Notes:** 1 B306 is the billing date.  
2 On collect freight bills the data in B309 will be the actual delivery date. For the shipments invoiced prior to delivery, the B309 will be the estimated date of delivery.  
3 If B314 is used, B304 will indicate the party or parties responsible for payment of the transportation terms identified in B314.  

**Comments:**  
**Notes:** B3**1559108A*43585700001*PP*L*20130707*76908**20130808*140*KRSK

## Data Element Summary

<table>
<thead>
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<th>Name</th>
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<th>Attributes</th>
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<tbody>
<tr>
<td>M</td>
<td>B302</td>
<td>76 Invoice Number</td>
<td>M</td>
<td>AN 1/22</td>
</tr>
<tr>
<td></td>
<td>B303</td>
<td>145 Shipment Identification Number</td>
<td>O</td>
<td>AN 1/30</td>
</tr>
<tr>
<td></td>
<td>B304</td>
<td>146 Shipment Method of Payment</td>
<td>M</td>
<td>ID 2/2</td>
</tr>
<tr>
<td></td>
<td>B305</td>
<td>188 Weight Unit Code</td>
<td>O</td>
<td>ID 1/1</td>
</tr>
<tr>
<td></td>
<td>B306</td>
<td>373 Date</td>
<td>M</td>
<td>DT 8/8</td>
</tr>
<tr>
<td>M</td>
<td>B307</td>
<td>193 Net Amount Due</td>
<td>M</td>
<td>N2 1/12</td>
</tr>
<tr>
<td>B308</td>
<td>202 Correction Indicator</td>
<td>O</td>
<td>ID 2/2</td>
<td></td>
</tr>
<tr>
<td>B309</td>
<td>32 Delivery Date</td>
<td>X</td>
<td>DT 8/8</td>
<td></td>
</tr>
</tbody>
</table>

### Data Element Descriptions:

- **B302 Invoice Number**: Identifying number assigned by issuer.  
- **B303 Shipment Identification Number**: Identification number assigned to the shipment by the shipper that uniquely identifies the shipment from origin to ultimate destination and is not subject to modification; (Does not contain blanks or special characters). Mandatory for 3M Bill of Lading Number.  
- **B304 Shipment Method of Payment**: Code identifying payment terms for transportation charges.  
  - CC Collect  
  - PP Prepaid (by Seller)  
  - TP Third Party Pay  
- **B305 Weight Unit Code**: Code specifying the weight unit.  
  - K Kilograms  
  - L Pounds  
- **B306 Date**: Date expressed as CYYMMDD.  
- **B307 Net Amount Due**: Total charges to be paid by the receiver of this transaction set expressed in the standard monetary denomination for the currency specified. Total Net Amount. 3M is unable to accept a negative dollar amount.  
- **B308 Correction Indicator**: Code used to indicate that the transaction set contains information which corrects previous information. Not required on original invoices. Required when sending a Corrected (BE) or Balance Due (AR) invoice.  
  - AR Adding Revenue  
  - BE Billing Error  
- **B309 Delivery Date**: Date for delivery of cargo to final consignee or to next mode expressed in format CYYMMDD.
<table>
<thead>
<tr>
<th>B310</th>
<th>374</th>
<th>Delivery Date</th>
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<tbody>
<tr>
<td>M</td>
<td>B311</td>
<td>Date/Time Qualifier</td>
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<td></td>
<td></td>
<td>Code specifying type of date or time, or both date and time</td>
</tr>
<tr>
<td></td>
<td></td>
<td>140 Actual</td>
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<td></td>
<td></td>
<td>X ID 3/3</td>
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<table>
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<th>Standard Carrier Alpha Code</th>
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<tr>
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<td>Standard Carrier Alpha Code</td>
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<td></td>
<td></td>
<td>Mandatory for 3M</td>
</tr>
<tr>
<td></td>
<td></td>
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<td>SCAC Code</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>M ID 2/4</td>
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</tbody>
</table>
Segment: **C3 Currency**

Position: 040
Loop: Heading
Usage: Optional
Max Use: 1
Purpose: To specify the currency being used in the transaction set

**Syntax Notes:**
- 1. C301 is the billing currency.
- 2. C303 is the payment currency.
- 3. C304 is the rated currency.

**Semantic Notes:**
- 1. Currency is implied by the code for the country in whose currency the monetary amounts are specified.

**Notes:** C3*CAD

### Data Element Summary

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<tr>
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<td>C301</td>
<td>100</td>
<td>Currency Code</td>
<td>M</td>
</tr>
</tbody>
</table>

Code (Standard ISO) for country in whose currency the charges are specified

Mandatory for 3M
Segment: N9  Reference Identification
Position: 060
Loop: Heading
Level: Optional
Max Use: 300
Purpose: To transmit identifying information as specified by the Reference Identification Qualifier
Syntax Notes:
1  At least one of N902 or N903 is required.
2  If N906 is present, then N905 is required.
3  If either C04003 or C04004 is present, then the other is required.
4  If either C04005 or C04006 is present, then the other is required.
Semantic Notes:
1  N906 reflects the time zone which the time reflects.
2  N907 contains data relating to the value cited in N902.

Data Element Summary

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<td>128</td>
<td>Reference Identification Qualifier</td>
<td>M ID 2/3</td>
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<td>Code qualifying the Reference Identification</td>
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<tr>
<td></td>
<td></td>
<td>BM Bill of Lading Number</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>IK Invoice Number</td>
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<td></td>
<td></td>
<td>PO Purchase Order Number</td>
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<td></td>
<td>Manufacturer's invoice number for vehicle/component</td>
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<td>N902</td>
<td>127</td>
<td>Reference Identification</td>
<td>X AN 1/30</td>
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<td>Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier</td>
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Segment: G62 Date/Time
Position: 070
Loop: 
Level: Heading
Usage: Optional
Max Use: 6
Purpose: To specify pertinent dates and times
Syntax Notes: 1 At least one of G6201 or G6203 is required.
2 If either G6201 or G6202 is present, then the other is required.
3 If either G6203 or G6204 is present, then the other is required.
Semantic Notes: 
Comments: 
Notes: G62*11*20130213

Data Element Summary

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<td>Code specifying type of date</td>
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<td>373</td>
<td>Date</td>
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<td>Date expressed as CCYMMDD</td>
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Segment: R3 Route Information - Motor

Position: 080
Loop: Level: Heading
Usage: Optional
Max Use: 12

Purpose: To specify carrier and routing sequences and details
Syntax Notes: 1 If R311 is present, then R310 is required.
2 If R312 is present, then R311 is required.

Semantic Notes: 1 R303 is the station or city name at which carriers interchange shipments
2 R307 is the carrier's billing date.
3 R308 is the amount due the carrier.

Comments:

Notes: R3*KRSK*B****1559108A

<table>
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<td>M</td>
<td>R302</td>
<td>133 Routing Sequence Code</td>
<td>M ID 1/2</td>
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<tr>
<td>R306</td>
<td>76</td>
<td>Invoice Number</td>
<td>O AN 1/22</td>
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</table>

Identifying number assigned by issuer
### Segment: K1 Remarks

- **Position:** 100
- **Loop:** Heading
- **Level:**
- **Usage:** Optional
- **Max Use:** 10
- **Purpose:** To transmit information in a free-form format for comment or special instruction

#### Syntax Notes:

#### Semantic Notes:

#### Comments:

#### Notes:

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<td>K101</td>
<td>61 Free-Form Message</td>
<td>M AN 1/30</td>
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<td></td>
<td>K102</td>
<td>61 Free-Form Message</td>
<td>O AN 1/30</td>
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</table>

Free-form information

Free-form information
Segment:  N1  Name

Position:  110
Loop:  0100  Optional
Level:  Heading
Usage:  Optional
Max Use:  1
Purpose:  To identify a party by type of organization, name, and code
Syntax Notes:  1  At least one of N102 or N103 is required.
2  If either N103 or N104 is present, then the other is required.

Semantic Notes:
Comments:  1  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.
2  N105 and N106 further define the type of entity in N101.

Notes:  CA, CN, SH name loops are Mandatory for 3M.
Please provide full addresses for all N1 loops.
N1*CA*Carrier Name*92*60000042
N1*SH*3M - PLANT #2
N1*CN*3M MILTON DC*92*2000

Data Element Summary

Ref.  Data  Element  Name  Attributes
Des.  Des.  Name  Element  Attributes
M  N101  98  Entity Identifier Code  M  ID 2/3
  Code identifying an organizational entity, a physical location, property or an
  individual
  CA  Carrier
  CN  Consignee
  SH  Shipper
  ST  Ship To

N102  93  Name  X  AN 1/60
  Free-form name

N103  66  Identification Code Qualifier  X  ID 1/2
  Code designating the system/method of code structure used for Identification
  Code (67)
  92  Assigned by Buyer or Buyer's Agent

N104  67  Identification Code  X  AN 2/80
  Code identifying a party or other code
  Required by 3M When N101 is set to "CA"
  3M will assign each carrier their own identifier to map to the N104

  Required by 3M When N101 is set to "CN"
  A 3M representative will provide a 4-digit code to map to the N104
Segment: **N2** Additional Name Information

Position: 120
Loop: 0100 Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To specify additional names or those longer than 35 characters in length

Syntax Notes:
Semantic Notes:
Comments:

### Data Element Summary

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</tr>
<tr>
<td>M</td>
<td>N202</td>
<td>93</td>
<td>Name</td>
</tr>
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<td></td>
<td></td>
<td></td>
<td>O AN 1/60</td>
</tr>
<tr>
<td></td>
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<td></td>
<td>Free-form name</td>
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</tbody>
</table>
Segment: N3 Address Information
Position: 130
Loop: 0100 Optional
Level: Heading
Usage: Optional
Max Use: 2
Purpose: To specify the location of the named party

Syntax Notes:
Semantic Notes:
Comments:
Notes: N3*2 Craig Street
N3*2751 PEDDIE ROAD

Data Element Summary

<table>
<thead>
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<th>Ref. Des.</th>
<th>Data Element</th>
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<tr>
<td></td>
<td></td>
<td>Address information</td>
<td></td>
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<tr>
<td>N302</td>
<td>166</td>
<td>Address Information</td>
<td>O AN 1/55</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Address information</td>
<td></td>
</tr>
</tbody>
</table>
Segment: N4 Geographic Location
Position: 140
Loop: 0100 Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To specify the geographic place of the named party
Syntax Notes: 1 If N406 is present, then N405 is required.
Semantic Notes: Comments: 1 A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
2 N402 is required only if city name (N401) is in the U.S. or Canada.
Notes: N4*PERTH*ON*K7H 3E2*CA
N4*Milton*ON*L9T 0K1*CA

Data Element Summary

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<td></td>
<td>Free-form text for city name</td>
<td></td>
</tr>
<tr>
<td>N402</td>
<td>156</td>
<td>State or Province Code</td>
<td>O ID 2/2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Code (Standard State/Province) as defined by appropriate government agency</td>
<td></td>
</tr>
<tr>
<td>N403</td>
<td>116</td>
<td>Postal Code</td>
<td>O ID 3/15</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Code defining international postal zone code excluding punctuation and blanks (zip code for United States)</td>
<td></td>
</tr>
<tr>
<td>N404</td>
<td>26</td>
<td>Country Code</td>
<td>O ID 2/3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Code identifying the country</td>
<td></td>
</tr>
<tr>
<td>N405</td>
<td>309</td>
<td>Location Qualifier</td>
<td>X ID 1/2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Code identifying type of location</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>RG Region Code</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Qualifies a code that identifies a geographic area where transportation rates apply</td>
<td></td>
</tr>
<tr>
<td>N406</td>
<td>310</td>
<td>Location Identifier</td>
<td>O AN 1/30</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Code which identifies a specific location</td>
<td></td>
</tr>
</tbody>
</table>
Segment: **N9** Reference Identification

**Position:** 150
**Loop:** 0100 Optional
**Level:** Heading
**Usage:** Optional
**Max Use:** 5

**Purpose:** To transmit identifying information as specified by the Reference Identification Qualifier

**Syntax Notes:**
1. At least one of N902 or N903 is required.
2. If N906 is present, then N905 is required.
3. If either C04003 or C04004 is present, then the other is required.
4. If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:**
1. N906 reflects the time zone which the time reflects.
2. N907 contains data relating to the value cited in N902.

**Comments:**

**Notes:** N9*IK*9243957

### Data Element Summary

<table>
<thead>
<tr>
<th>Ref. Des.</th>
<th>Data Element</th>
<th>Name</th>
<th>Attributes</th>
</tr>
</thead>
<tbody>
<tr>
<td>M</td>
<td>N901</td>
<td>128 Reference Identification Qualifier</td>
<td>M ID 2/3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Code qualifying the Reference Identification</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Refer to 004010 Data Element Dictionary for acceptable code values.</td>
<td></td>
</tr>
<tr>
<td>N902</td>
<td>127</td>
<td>Reference Identification</td>
<td>X AN 1/30</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier</td>
<td></td>
</tr>
</tbody>
</table>
Segment: **N7** Equipment Details

Position: 160
Loop: 0200 Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To identify the equipment

**Syntax Notes:**
1. If either N703 or N704 is present, then the other is required.
2. If either N705 or N716 is present, then the other is required.
3. If either N708 or N709 is present, then the other is required.

**Semantic Notes:**
1. N712 is the owner of the equipment.
2. N723 is the operator or carrier of the rights of the equipment.

**Comments:**
1. N701 is mandatory for rail transactions.
2. N720 and N721 are expressed in inches.

**Notes:** N7*A*22134*********TL****5300

### Data Element Summary

<table>
<thead>
<tr>
<th>Ref. Des.</th>
<th>Data Element</th>
<th>Name</th>
<th>Attributes</th>
</tr>
</thead>
<tbody>
<tr>
<td>N701</td>
<td>206</td>
<td>Equipment Initial</td>
<td>O AN 1/4</td>
</tr>
<tr>
<td>M</td>
<td>N702</td>
<td>Equipment Number</td>
<td>M AN 1/10</td>
</tr>
<tr>
<td>N711</td>
<td>40</td>
<td>Equipment Description Code</td>
<td>O ID 2/2</td>
</tr>
<tr>
<td>N715</td>
<td>567</td>
<td>Equipment Length</td>
<td>O N0 4/5</td>
</tr>
</tbody>
</table>

- **Equipment Initial**
  - Prefix or alphabetic part of an equipment unit's identifying number

- **Equipment Number**
  - Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)

- **Equipment Description Code**
  - Code identifying type of equipment used for shipment
  - Refer to 004010 Data Element Dictionary for acceptable code values.

- **Equipment Length**
  - Length (in feet and inches) of equipment ordered or used to transport shipment
  - The format is FFFII where FFF is feet and II is inches; the range for II is 00 through 11
Segment: **S5**  Stop-off Details

Position: 010
Loop: 0300 Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify stop-off detail reference numbers and stop reason

Syntax Notes:
1. If either S503 or S504 is present, then the other is required.
2. If either S505 or S506 is present, then the other is required.
3. If either S507 or S508 is present, then the other is required.

Semantic Notes:
1. S509 is the stop reason description.

Comments:

Notes: S5*222*CL*******Test S5 Description

### Data Element Summary

<table>
<thead>
<tr>
<th>Ref. Des.</th>
<th>Data Element</th>
<th>Name</th>
<th>Attributes</th>
</tr>
</thead>
<tbody>
<tr>
<td>M</td>
<td>S501</td>
<td>Stop Sequence Number</td>
<td>M N0 1/3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Identifying number for the specific stop and the sequence in which the stop is to be performed</td>
<td></td>
</tr>
<tr>
<td>M</td>
<td>S502</td>
<td>Stop Reason Code</td>
<td>M ID 2/2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Code specifying the reason for the stop</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>CL Complete</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>CN Consolidate</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>CU Complete Unload</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>HT Heat the Shipment</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>LD Load</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>PL Part Load</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>PU Part Unload</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TL Transload</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>UL Unload</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>WL Weigh Loaded</td>
<td></td>
</tr>
<tr>
<td>S509</td>
<td>352</td>
<td>Description</td>
<td>O AN 1/80</td>
</tr>
<tr>
<td></td>
<td></td>
<td>A free-form description to clarify the related data elements and their content</td>
<td></td>
</tr>
</tbody>
</table>
**Segment:** LX  Assigned Number

**Position:** 120

**Loop:** 0400  Optional

**Level:** Detail

**Usage:** Optional

**Max Use:** 1

**Purpose:** To reference a line number in a transaction set

**Syntax Notes:**

**Semantic Notes:**

**Comments:**

**Notes:** A separate LX loop is required for each L1 segment.

LX*1

### Data Element Summary

<table>
<thead>
<tr>
<th>Ref.</th>
<th>Data Des.</th>
<th>Data Element</th>
<th>Name</th>
<th>Attributes</th>
</tr>
</thead>
<tbody>
<tr>
<td>M</td>
<td>LX01</td>
<td>554</td>
<td>Assigned Number</td>
<td>M N0 1/6</td>
</tr>
</tbody>
</table>

Number assigned for differentiation within a transaction set

Mandatory for 3M

This element should contain a counter that is incremented by 1 for every detail loop written.
**Segment:** N9  **Reference Identification**

- **Position:** 130
- **Loop:** 0400  **Optional**
- **Level:** Detail
- **Usage:** Optional
- **Max Use:** 5
- **Purpose:** To transmit identifying information as specified by the Reference Identification Qualifier

**Syntax Notes:**
1. At least one of N902 or N903 is required.
2. If N906 is present, then N905 is required.
3. If either C04003 or C04004 is present, then the other is required.
4. If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:**
1. N906 reflects the time zone which the time reflects.
2. N907 contains data relating to the value cited in N902.

**Comments:**

**Notes:** N9*BM*43585700001

### Data Element Summary

<table>
<thead>
<tr>
<th>Ref.</th>
<th>Data Des.</th>
<th>Data Element</th>
<th>Name</th>
<th>Attributes</th>
</tr>
</thead>
<tbody>
<tr>
<td>M</td>
<td>N901</td>
<td>128</td>
<td>Reference Identification Qualifier</td>
<td>M ID 2/3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Code qualifying the Reference Identification</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Refer to 004010 Data Element Dictionary for acceptable code values.</td>
<td></td>
</tr>
<tr>
<td>N902</td>
<td></td>
<td>127</td>
<td>Reference Identification</td>
<td>X AN 1/30</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier</td>
<td></td>
</tr>
</tbody>
</table>
Segment: **L5** Description, Marks and Numbers

**Position:** 140
**Loop:** 0400 Optional
**Level:** Detail
**Usage:** Optional
**Max Use:** 30
**Purpose:** To specify the line item in terms of description, quantity, packaging, and marks and numbers

**Syntax Notes:**
1. If either L503 or L504 is present, then the other is required.
2. If L507 is present, then L506 is required.
3. If either L508 or L509 is present, then the other is required.

**Semantic Notes:**

**Comments:**
1. L502 may be used to send quantity information as part of the product description.

**Notes:** L5*1*FREIGHT (FLAT-CANADIAN FUNDS)

### Data Element Summary

<table>
<thead>
<tr>
<th>Ref. Des.</th>
<th>Data Element</th>
<th>Name</th>
<th>Attributes</th>
</tr>
</thead>
<tbody>
<tr>
<td>L501</td>
<td>213</td>
<td>Lading Line Item Number</td>
<td>O N0 1/3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Sequential line number for a lading item</td>
<td></td>
</tr>
<tr>
<td>L502</td>
<td>79</td>
<td>Lading Description</td>
<td>O AN 1/50</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Description of an item as required for rating and billing purposes</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Mandatory for 3M</td>
<td></td>
</tr>
</tbody>
</table>
Segment: **L0** Line Item - Quantity and Weight

**Position:** 170
**Loop:** 0400 Optional
**Level:** Detail
**Usage:** Optional
**Max Use:** 10
**Purpose:** To specify quantity, weight, volume, and type of service for a line item including applicable "quantity/rate-as" data

**Syntax Notes:**
1. If either L002 or L003 is present, then the other is required.
2. If either L004 or L005 is present, then the other is required.
3. If either L006 or L007 is present, then the other is required.
4. If either L008 or L009 is present, then the other is required.
5. If L011 is present, then L004 is required.
6. If either L013 or L015 is present, then the other is required.

**Semantic Notes:**
1. L008 is the number of handling units of the line item tendered to the carrier.
2. L013 can only be used if the code in L009 is PLT, SKD, or SLP.
3. L015 designates whether the carrier will be required to verify the number of units contained on a pallet, slip sheet or skid. Code "Y" indicates that the carrier will be required to verify. Code "N" indicates that the carrier will not be required to verify.

**Comments:**
1. L013 is used to convey the total number of boxes, cartons, or pieces contained on a pallet, skid, or slip sheet for the line item.

**Notes:** L0*1*1*FR*23731*N***1*PCS**L

---

**Data Element Summary**

<table>
<thead>
<tr>
<th>Ref. Des.</th>
<th>Data Element</th>
<th>Name</th>
<th>Attributes</th>
<th>Attributes</th>
</tr>
</thead>
<tbody>
<tr>
<td>L001</td>
<td>213</td>
<td>Lading Line Item Number</td>
<td>O</td>
<td>N0 1/3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Sequential line number for a lading item</td>
<td></td>
<td></td>
</tr>
<tr>
<td>L002</td>
<td>220</td>
<td>Billed/Rated-as Quantity</td>
<td>X</td>
<td>R 1/11</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Basis for rating (miles, value, volume, etc.); Note: Weight may be defined by either data element 220 or 81</td>
<td></td>
<td></td>
</tr>
<tr>
<td>L003</td>
<td>221</td>
<td>Billed/Rated-as Qualifier</td>
<td>X</td>
<td>ID 2/2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Code identifying the type of quantity or value on which the rate or item pricing is based</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Refer to 004010 Data Element Dictionary for acceptable code values</td>
<td></td>
<td></td>
</tr>
<tr>
<td>L004</td>
<td>81</td>
<td>Weight</td>
<td>X</td>
<td>R 1/10</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Numeric value of weight</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Mandatory for 3M</td>
<td></td>
<td></td>
</tr>
<tr>
<td>L005</td>
<td>187</td>
<td>Weight Qualifier</td>
<td>X</td>
<td>ID 1/2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Code defining the type of weight</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Mandatory for 3M</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>A1  Dimensional Weight</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>G  Gross Weight</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>N  Actual Net Weight</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>T  Tare Weight</td>
<td></td>
<td></td>
</tr>
<tr>
<td>L008</td>
<td>80</td>
<td>Lading Quantity</td>
<td>X</td>
<td>N0 1/7</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Number of units (pieces) of the lading commodity</td>
<td></td>
<td></td>
</tr>
<tr>
<td>L009</td>
<td>211</td>
<td>Packaging Form Code</td>
<td>X</td>
<td>ID 3/3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Code for packaging form of the lading quantity</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>BDL  Bundle</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>BOX  Box</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>CAS  Case</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>CTN  Carton</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>PCS  Pieces</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>PLT  Pallet</td>
<td></td>
<td></td>
</tr>
<tr>
<td>L011</td>
<td>188</td>
<td>Weight Unit Code</td>
<td></td>
<td></td>
</tr>
<tr>
<td>------</td>
<td>-----</td>
<td>-----------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Code specifying the weight unit</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>K</strong></td>
<td>Kilograms</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>L</strong></td>
<td>Pounds</td>
<td></td>
</tr>
</tbody>
</table>
Segment: L1 Rate and Charges
Position: 180
Loop: 0400 Optional
Level: Detail
Usage: Optional
Max Use: 10
Purpose: To specify rate and charges detail relative to a line item including freight charges, advances, special charges, and entitlements
Syntax Notes:
1. If either L102 or L103 is present, then the other is required.
2. At least one of L104 L105 or L106 is required.
3. If either L114 or L115 is present, then the other is required.
4. If either L117 or L118 is present, then the other is required.
Semantic Notes:
1. L119 is the percent used to determine the charge in L104.
2. L120, if used, indicates the currency for all monetary amounts in this L1 segment.
3. L121 is the origin rated as charge amount.
Comments:
Notes: L1*1*2250*PW*179****FUE

Data Element Summary

<table>
<thead>
<tr>
<th>Ref. Des.</th>
<th>Data Element</th>
<th>Name</th>
<th>Attributes</th>
</tr>
</thead>
<tbody>
<tr>
<td>L101</td>
<td>213</td>
<td>Lading Line Item Number</td>
<td>O N0 1/3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Sequential line number for a lading item</td>
<td></td>
</tr>
<tr>
<td>L102</td>
<td>60</td>
<td>Freight Rate</td>
<td>X R 1/9</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Rate that applies to the specific commodity</td>
<td></td>
</tr>
<tr>
<td>L103</td>
<td>122</td>
<td>Rate/Value Qualifier</td>
<td>X ID 2/2</td>
</tr>
</tbody>
</table>
|           |              | Code qualifying how to extend charges or interpret value
|           |              | FR - Flat Rate                            |            |
|           |              | LB - Per Pound                            |            |
|           |              | MN - Minimum                              |            |
|           |              | PH - Per Hundred (of Basic Unit)          |            |
|           |              | PM - Per Mile                             |            |
| L104      | 58           | Charge                                    | X N2 1/12  |
|           |              | For a line item: freight or special charge; for the total invoice: the total charges -- expressed in the standard monetary denomination for the currency specified Mandatory for 3M
|           |              | Amount charged for this line item         |            |
|           |              | 3M is unable to accept a negative dollar amount |          |
| L108      | 150          | Special Charge or Allowance Code          | O ID 3/3   |
|           |              | Code identifying type of special charge or allowance
|           |              | 3M will accept any ANSI compliant value sent in the L108, but we ask that you use the following codes only when providing us Tax Information. Please note for our Canadian carriers we are using 3 code values in a non standard method as follows:
|           |              | a.) Code "TTS" indicates "State Tax" but 3M asks that you use this code if you are providing us "Province Tax".
|           |              | b.) Code "ZZZ" indicated "Mutually defined" but 3M asks that you use this code if you are providing us "Quebec Tax".
<p>|           |              | c.) Code &quot;HST&quot; is not an ANSI compliant code, but 3M will accept it. When it is used it indicates &quot;Harmonized Sales Tax&quot;. Please note this value is not displayed on the list of qualifiers below. |
|           |              | 750 - Value Added Tax (VAT)               |            |
|           |              | AAT - Handling Charge Tax                 |            |
|           |              | CBX - City Sales Tax (Only)               |            |
|           |              | GST - Goods and Services Tax Charge       |            |
|           |              | LLS - Local Sales Tax (All Applicable Sales Taxes by Taxing Authorities Below the State Level) |        |</p>
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MMT</td>
<td>Metropolitan Transit Tax</td>
</tr>
<tr>
<td>PPT</td>
<td>Parish/County Sales Tax (only)</td>
</tr>
<tr>
<td>SST</td>
<td>Sales Tax (State and Local)</td>
</tr>
<tr>
<td>SSX</td>
<td>Sales and Use Tax</td>
</tr>
<tr>
<td>TAD</td>
<td>Tax on Transportation</td>
</tr>
<tr>
<td>TTL</td>
<td>Local Tax</td>
</tr>
<tr>
<td>TTM</td>
<td>Tax on Miscellaneous Charges</td>
</tr>
<tr>
<td>TTS</td>
<td>State Tax</td>
</tr>
<tr>
<td>UUT</td>
<td>Use Tax</td>
</tr>
<tr>
<td>ZZZ</td>
<td>Mutually Defined</td>
</tr>
</tbody>
</table>

For Canadian carriers this value is sent when indicating:
- Province Tax
- Quebec Tax
Segment: **L7** Tariff Reference  
Position: 200  
Loop: 0400 Optional  
Level: Detail  
Usage: Optional  
Max Use: 10  
Purpose: To reference details of the tariff used to arrive at applicable rates or charge  

Syntax Notes:  
1  L710 is the effective date.  
2  In L715 and L716, "City" and "State" are used for rate combination city and state.  

Comments:  
Notes: L7*1**1091****70  

<table>
<thead>
<tr>
<th>Ref. Des.</th>
<th>Data Element</th>
<th>Name</th>
<th>Attributes</th>
</tr>
</thead>
<tbody>
<tr>
<td>L701</td>
<td>213</td>
<td>Lading Line Item Number</td>
<td>O N0 1/3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Sequential line number for a lading item</td>
<td></td>
</tr>
<tr>
<td>L703</td>
<td>171</td>
<td>Tariff Number</td>
<td>O AN 1/7</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Standard tariff number for the tariff which governs the rates applied to the commodity item(s)</td>
<td></td>
</tr>
<tr>
<td>L707</td>
<td>59</td>
<td>Freight Class Code</td>
<td>O AN 2/5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Code indicating generalized classification that applies to one or more items in the shipment, i.e., class 70, 77.5, etc.</td>
<td></td>
</tr>
</tbody>
</table>
Segment: **K1** Remarks
Position: 210
Loop: 0400  Optional
Level: Detail
Usage: Optional
Max Use: 10
Purpose: To transmit information in a free-form format for comment or special instruction

| Notes: | K1*Test Detail K1 Note 1*Test Detail K1 Note 2 |

### Data Element Summary

<table>
<thead>
<tr>
<th>Ref.</th>
<th>Data Des.</th>
<th>Data Element</th>
<th>Name</th>
<th>Attributes</th>
</tr>
</thead>
<tbody>
<tr>
<td>M</td>
<td>K101</td>
<td>61</td>
<td>Free-Form Message</td>
<td>M</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Free-form information</td>
<td>AN 1/30</td>
</tr>
<tr>
<td>K102</td>
<td></td>
<td>61</td>
<td>Free-Form Message</td>
<td>O</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Free-form information</td>
<td>AN 1/30</td>
</tr>
</tbody>
</table>
**Segment:** L3  **Total Weight and Charges**

**Position:** 010

**Loop:**

**Level:** Summary

**Usage:** Optional

**Max Use:** 1

**Purpose:** To specify the total shipment in terms of weight, volume, rates, charges, advances, and prepaid amounts applicable to one or more line items

**Syntax Notes:**
1. If either L301 or L302 is present, then the other is required.
2. If either L303 or L304 is present, then the other is required.
3. If either L309 or L310 is present, then the other is required.
4. If L312 is present, then L301 is required.
5. If either L314 or L315 is present, then the other is required.

**Semantic Notes:**
1. L305 is the total charges.

**Comments:**

**Notes:** L3*23731*G***76908******26

---

**Data Element Summary**

<table>
<thead>
<tr>
<th>Ref.</th>
<th>Data Des.</th>
<th>Data Element</th>
<th>Name</th>
<th>Attributes</th>
</tr>
</thead>
<tbody>
<tr>
<td>L301</td>
<td>81</td>
<td>L301 Weight</td>
<td>Weight</td>
<td>X R 1/10</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Numeric value of weight</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Mandatory for 3M</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Total Shipment Weight</td>
<td></td>
</tr>
<tr>
<td>L302</td>
<td>187</td>
<td>L302 Weight Qualifier</td>
<td>Weight Qualifier</td>
<td>X ID 1/2</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Code defining the type of weight</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Mandatory for 3M</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>A1 Dimensional Weight</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>G Gross Weight</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>N Actual Net Weight</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>T Tare Weight</td>
<td></td>
</tr>
<tr>
<td>L305</td>
<td>58</td>
<td>L305 Charge</td>
<td>Charge</td>
<td>O N2 1/12</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>For a line item: freight or special charge; for the total invoice: the total charges expressed in the standard monetary denomination for the currency specified</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Mandatory for 3M</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Total Charges for Shipment</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>3M is unable to accept a negative dollar amount</td>
<td></td>
</tr>
<tr>
<td>L309</td>
<td>183</td>
<td>L309 Volume</td>
<td>Volume</td>
<td>X R 1/8</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Value of volumetric measure</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Total Volume for Shipment</td>
<td></td>
</tr>
<tr>
<td>L310</td>
<td>184</td>
<td>L310 Volume Unit Qualifier</td>
<td>Volume Unit Qualifier</td>
<td>X ID 1/1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Code identifying the volume unit</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>C Cubic Centimeters</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>E Cubic Feet</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>N Cubic Inches</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>X Cubic Meters</td>
<td></td>
</tr>
<tr>
<td>L311</td>
<td>80</td>
<td>L311 Lading Quantity</td>
<td>Lading Quantity</td>
<td>O N0 1/7</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Number of units (pieces) of the lading commodity</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Mandatory for 3M</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Total Tendered Pieces</td>
<td></td>
</tr>
</tbody>
</table>
Segment: **SE** Transaction Set Trailer

**Position:** 020

- **Loop:** Summary
- **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.

### Data Element Summary

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

Transaction Example:

ISA}00} }00} }ZZ}IDSENDERID }12}IDRECEIVERID }150216}1737}U}00400}000021048}0}P}{~ GS}IM}IDSENDERID}IDRECEIVERID}20150216}1737}21048}X}004010~
ST}210}210480001~
B3}}INVOICENUMBER}BILLOFLADING}PP}L}20150216}114564}}20150211}035}SCAC}20150210~
C3}USD~
G62}11}20150216~
N1}CA}CARRIERNAME}92}SUPPLIERNUMBER~
N3}123 CARRIER ADDRESS~
N4}CITY}ST}POSTALCODE}COUNTRY CODE~
N1}SH}SHIPPER COMPANY NAME~
N3}123 SHIPPER ADDRESS~
N4}CITY}ST}POSTALCODE}COUNTRY CODE~
N1}CN}3M NAME}92}XXXX (4-DIGIT CODE GIVEN TO CARRIER BY 3M)~
N3}123 CONSIGNEE ADDRESS~
N4}CITY}ST}POSTALCODE}COUNTRY CODE~
LX}1~
L5}1]PLASTIC,RUBBER,MED S~
L0}1}1}FR}38318}N}17}PCS}L~
L1}1}1020}FR}102000~
LX}2~
L0}2}349]DM~
L1}2}36}PM}12564}}FUE~
L3}38318}N}114564}}17}L~
SE}22}210480001~
GE}1}21048~
IEA}1}000021048~
B308 = AR (Adding Revenue/Balance Due)

ISA}00} }00} }ZZ}IDSENDERID }12}IDRECEIVERID }150216}1737}U}00400}000021048}0}P}{~
GS}IM}IDSENDERID}IDRECEIVERID}20150216}1737}21048}X}004010{~
ST}210}210480001{~
B3)}INVOCENUMBER}BILLOFLADING}PP}L}20150216}114564}AR}20150211}035}SCAC}20150210{~
C3}USD{~
G62}11}20150216{~
N1}CA}CARRIERNAME}{92}SUPPLIERNUMBER{~
N3}123 CARRIER ADDRESS{~
N4}CITY}ST}POSTALCODE}COUNTRY CODE{~
N1}SH}SHIPPER COMPANY NAME{~
N3}123 SHIPPER ADDRESS{~
N4}CITY}ST}POSTALCODE}COUNTRY CODE{~
N1}CN}3M NAME}{92}XXXX (4-DIGIT CODE GIVEN TO CARRIER BY 3M){~
N3}123 CONSIGNEE ADDRESS{~
N4}CITY}ST}POSTALCODE}COUNTRY CODE{~
LX}{1{~
L5}{1}USED FERRY SERVICE{~
L0}{1}FR{~
L1}{1}FR}30000}N}}FLT{~
L3}{38318}N}}30000}N}}N}17{~
SE}{19}210480001{~
GE}{1}21048{~
IEA}{1}000021048{~
**B308 = BE (Billing Error)**

ISA\{00\} \{00\} \{ZZ\}\{DSENDERID\}\{12\}\{DRECEIVERID\}\{150216\}\{1737\}U\{00400\}000021048\}0\{P\}\{~

GS\{M\}\{DSENDERID\}\{DRECEIVERID\}\{20150216\}\{1737\}\{21048\}\{X\}\{004010\}~

ST\{210\}\{210480001\}~

B3\}\{INVOICENUMBER\}\{BILLOFLADING\}\{PP\}\{L\}\{20150216\}\{114564\}\{BE\}\{20150211\}\{035\}\{SCAC\}\{20150210\}~

C3\}USD~

G62\{11\}\{20150216\}~

**K1]USED OLD PRICE GUIDE**~

N1\{CA\}\{CARRIERNAME\}\{92\}\{SUPPLIERNUMBER\}~

N3\{123\} CARRIER ADDRESS~

N4\{CITY\}\{ST\}\{POSTALCODE\}\{COUNTRY CODE\}~

N1\{SH\}\{SHIPPER COMPANY NAME\}~

N3\{123\} SHIPPER ADDRESS~

N4\{CITY\}\{ST\}\{POSTALCODE\}\{COUNTRY CODE\}~

N1\{CN\}\{3M NAME\}\{92\}\{XXXX\ (4-DIGIT CODE GIVEN TO CARRIER BY 3M)\}~

N3\{123\} CONSIGNEE ADDRESS~

N4\{CITY\}\{ST\}\{POSTALCODE\}\{COUNTRY CODE\}~

LX\{1\}~

L5\{1\}\{PLASTIC,RUBBER,MED S\}~

L0\{1\}\{FR\}\{38318\}\{N\}\{17\}\{PCS\}\}L~

L1\{1\}\{1020\}\{FR\}\{102000\}~

LX\{2\}~

L0\{2\}\{349\}\{DM\}~

L1\{2\}\{36\}\{PM\}\{15000\}\}\}FUE~

L3\{38318\}\{N\}\{117000\}\}L\}17\{L~

SE\{23\}\{210480001\}~

GE\{1\}\{21048\}~

IEA\{1\}\{000021048\}~