VOLVO

ADVANCED SHIPMENT NOTICE

Volvo's Implementation Guidelines

856 ASN

Version 200803 ;Revision 21

The purpose and basic function of the message

The purpose of the 856 ASN is to provide the final “Ship to” of the goods with detailed information relating to the actual contents of a despatch sent by a “Ship from.”
The message is based upon the definition of a despatch as a specified amount of goods sent by a specified “Ship from” to a specified “Ship to” on a specific occasion.

Notification is to be given of deliveries to all Volvo business units.

The message gives the following information:

- To state the actual time for despatch.
- To provide specific information concerning transportation.
- To specify the actual packages in the despatch.
- To specify the contents of the despatch.
- To provide the necessary documentation for customs clearance.

2 Creation of an ASN

An ASN shall state the actual contents of a despatch.

Notification must therefore not be made until the actual loading procedure is completed and no later than one hour after the goods have been dispatched.

All articles from one “Ship from” to one “Place of discharge” on one and the same delivery occasion shall be specified on one and the same ASN.

In the event that the quantity of goods defined in a particular despatch is too large to be accommodated in its entirety on one vehicle/trailer/container etc., it is necessary to redefine the dispatch so it relates only to the vehicle/trailer/container etc. on which it is being transported.

3 Branching diagram

Heading:

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

Detail:

Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
		LOOP ID - HL			200000	
010	HL	Hierarchical Level	M	1		
080	MEA	Measurements	M	1		
120	TD5	Carrier Details (Routing Sequence/Transit Time)	M	1		
130	TD3	Carrier Details (Equipment)	O	1		
150	REF	Reference Identification	M	>1		
		LOOP ID - N1			2	
220	N1	Name	M	1		
		LOOP ID - HL			200000	
010	HL	Hierarchical Level	M	1		
020	LIN	Item Identification	M	1		
030	SN1	Item Detail (Shipment)	M	1		
050	PRF	Purchase Order Reference	M	1		
		LOOP ID - CLD			200	
170	CLD	Load Detail	M	1		
180	REF	Reference Identification	O	200		

Summary:

Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
010	CTT	Transaction Totals	M	1		
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.

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).

Example: ST*856*0000001'

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
ST01	**143**	**Transaction Set Identifier Code** Code uniquely identifying a Transaction Set **856 ASN**	**M ID 3/3**
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
Semantic Notes:
1 BSN03 is the date the shipment transaction set is created.
2 BSN04 is the time the shipment transaction set is created.

Example: BSN*00*189721*20070620*1659'

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
BSN01	**353**	**Transaction Set Purpose Code** Code identifying purpose of transaction set **Valid Code:** **00** **Original**	**M ID 2/2**
BSN02	**396**	**Shipment Identification** A unique control number assigned by the original shipper to identify a specific shipment **Note:** This is the “SID” number or “Shipping ID” number that must be referenced on the paper packing list ***and*** the ASN. This field can be Alpha Numeric. **Special Characters should not be used**.	**M AN 2/30**
BSN03	**373**	**Date CCYYMMDD** **Note:** This date on which the message (ASN) was created. It should always match the actual date of shipment	**M DT 8/8**
BSN04	**337**	**Time HHMM**	**M TM 4/8**

Segment: **DTM** **Date/Time Reference**
Position: 040
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
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.

Example: **DTM*011*20070620*1652*PT'**

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
DTM01	**374**	**Date/Time Qualifier** Code specifying type of date or time, or both date and time **Valid Code**: **011** **Shipped Date**	**M ID 3/3**
DTM02	**373**	**Date CCYYMMDD**	**M DT 8/8**
DTM03	**337**	**Time HHMM**	**M TM 4/8**
DTM04	**623**	**Time Code** **Valid Codes:** **CT** **Central Time** **ET** **Eastern Time** **MT** **Mountain Time** **PT** **Pacific Time**	**M ID 2/2**

Segment: **HL** **Hierarchical Level**
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
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 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.

Example: HL*001S'**

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
HL01	**628**	**Hierarchical ID Number** A unique number assigned by the sender to identify a particular data segment in a hierarchical structure **Note:** At the shipment level, this data element should always be '1'	**M AN 1/12**
HL03	**735**	**Hierarchical Level Code** Code defining the characteristic of a level in a hierarchical structure **Valid Code:** **S Shipment Level**	**M ID 1/2**

Segment: **MEA** **Measurements**
Position: 080
Loop: HL Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)
Syntax Notes: **1** At least one of MEA03 MEA05 MEA06 or MEA08 is required.
Semantic Notes: **1** MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.

Example: **MEA*PD*G*180*KG'**

Data Element Summary

Ref. Des.	Data Element	Name	Attributes	
MEA01	**737**	**Measurement Reference ID Code** Code identifying the broad category to which a measurement applies **Valid Code:** **PD** **Physical Dimensions**	**O**	**ID 2/2**
MEA02	**738**	**Measurement Qualifier** Code identifying a specific product or process characteristic to which a measurement applies **Valid Code:** **G** **Gross Weight**	**O**	**ID 1/3**
MEA03	**739**	**Measurement Value** The value of the measurement **Note:** Total Weight Weight must be sent in Kilograms. LB must be converted to kilograms using the formula: LB x 0.454 = KG. Decimals **cannot** be sent in this data, please round accordingly	**X**	**R 1/20**
MEA04	**C001**	**Composite Unit of Measure** To identify a composite unit of measure (See Figures Appendix for examples of use)	**X**	
C00101	**355**	**Unit or Basis for Measurement Code** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken **Valid Code:** **KG** **Kilogram**	**M**	**ID 2/2**

Segment: **TD5** **Carrier Details (Routing Sequence/Transit Time)**
Position: 120
Loop: HL Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To specify the carrier and sequence of routing and provide transit time information
Syntax Notes: **1** At least one of TD502 TD504 TD505 TD506 or TD512 is required.
2 If TD502 is present, then TD503 is required.

Example: **TD5*B*02*YFSY*LT'**

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
TD501	**133**	**Routing Sequence Code** Code describing the relationship of a carrier to a specific shipment movement **Valid Code:** **B** **Origin/Delivery Carrier (Any Mode)**	**O ID 1/2**
TD502	**66**	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67) **Valid Code:** **2** **Standard Carrier Alpha Code (SCAC)**	**X ID 1/2**
TD503	**67**	**Identification Code** Code identifying a party or other code **Note:** Should represent the SCAC (Standard Carrier Account Code) as agreed upon in the trading partner agreement.	**X AN 2/80**
TD504	**91**	**Transportation Method/Type Code** Code specifying the method or type of transportation for the shipment **Valid Codes:** **A** **Air** **C** **Consolidation** **L** **Contract Carrier** **LT** **Less Than Trailer Load (LTL)** **M** **Motor (Common Carrier) for Full Trailer loads** **R** **Rail** **SR** **Supplier Truck** **VE** **Vessel, Ocean**	**X ID 1/2**

Segment: **TD3** **Carrier Details (Equipment)**
Position: 130
Loop: HL Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
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.

Comments: **This segment is only required if the shipment is a full trailer load. For oversea shipments, the container number could be sent if known at the time of shipment.**

Example: **TD3*TL*123456'**

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
TD301	**40**	**Equipment Description Code** Code identifying type of equipment used for shipment **Valid Code:** **CN** **Container** **TL** **Trailer**	**X ID 2/2**
TD303	**207**	**Equipment Number** Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred) **Note:** Trailer number is required for full trailer load shipments	**X 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:
Special Note: Carrier Reference Number must be sent.

Example: **REF*CN*1633371107'**

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
REF01	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification **Valid Code:** **CN** **Carrier's Reference Number (PRO Number)**	**M ID 2/3**
REF02	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier **Note:** **Primary rule:** When using the Volvo Logistics ATLAS system to generate the Transport Booking Request, the ATLAS Shipment Reference Number (SRN) should always be the reference given **In other cases:** The REF02 shall contain a reference to the transport document number. (Carrier's Reference Number/ Pro Number) When agreement is made to use the Volvo Transport Document (VTD) as transport document, this document will replace any other international or domestic transport document.	**M AN 1/30**

Segment: REF **Reference Identification**

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

Example: **REF*ZB*556'**

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
REF01	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification **Valid Codes:** **ZB** **Ultimate Consignee**	**M ID 2/3**
REF02	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier **Note:** Use the Ultimate Consignee as the final delivery point given on the 830 in the REF02 with REF01 = LU for location.	**M AN 1/30**

Segment: REF **Reference Identification**

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

Example: REF*DK*556'

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
REF01	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification **Valid Codes:** **DK Dock Number**	**M ID 2/3**
REF02	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier **Note:** Use receiving dock information given on the 830	**M AN 1/30**

Segment: REF **Reference Identification**

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

Special Note: Required when full Trailer/Container load.

Example: **REF*BM*12345678901234567890**

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
REF01	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification **Valid Codes:** **BM** **Bill of Lading Number**	**M ID 2/3**
REF02	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier **Note:** Use the bill of lading for full Trailer/Container loads	**M AN 1/30**

Segment: **N1** **Name**
Position: 220
Loop: N1 Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To identify a party by type of organization, name, and code

Example: **N1*SF*ABC CORPORATION*92*54321**

Data Element Summary

Ref. Des.	Data Element	Name	Attributes	
N101	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual **Valid Codes:** **SF** **Ship From**	**M**	**ID 2/3**
N102	**93**	**Name** Free-form name	**X**	**AN 1/35**
N103	**66**	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67) **Valid Code:** **92** **Assigned by Buyer or Buyer's Agent**	**M**	**ID 1/2**
N104	**67**	**Identification Code** Code identifying a party or other code **Note:**	**M**	**AN 2/9**

Segment:

Segment:N1 Name

Position: 220
Loop: N1 Mandatory
Level: Detail
Usage: Dependent
Max Use: 1
Purpose: To identify a party by type of organization, name, and code

Example: **N1*SE*AAA CORPORATION*92*11111'**

Data Element Summary

Ref. Des.	Data Element	Name	Attributes	
N101	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual **Valid Codes:** **SE** **Selling Party** *"SE" is only to be sent if different from the ship from location*	**M**	**ID 2/3**
N102	**93**	**Name** Free-form name	**X**	**AN 1/35**
N103	**66**	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67) **Valid Code:** **92** **Assigned by Buyer or Buyer's Agent**	**M**	**ID 1/2**
N104	**67**	**Identification Code** Code identifying a party or other code **Note:**	**M**	**AN 2/9**

Segment: **N1** **Name**

Position: 220
Loop: N1 Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To identify a party by type of organization, name, and code

Example: **N1*ST*VOLVO TRUCK NA*92*04388'**.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes	
N101	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual **Valid Codes:** **ST** **Ship To**	**M**	**ID 2/3**
N102	**93**	**Name** Free-form name	**X**	**AN 1/35**
N103	**66**	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67) **Valid Code:** **92** **Assigned by Buyer or Buyer's Agent**	**M**	**ID 1/2**
N104	**67**	**Identification Code** Code identifying a party or other code **Note:** Use the “Ship To” destination and the “Ship From” codes sent on the 830s	**M**	**AN 2/9**

HL Hierarchical Level

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 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.

Example: **HL*002**I'**

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
HL01	**628**	**Hierarchical ID Number** A unique number assigned by the sender to identify a particular data segment in a hierarchical structure **Note:** Sequential number beginning with 2	**M AN 1/12**
HL03	**735**	**Hierarchical Level Code** Code defining the characteristic of a level in a hierarchical structure **Valid Code:** **I** **Item level**	**M ID 1/2**

Segment: **LIN** **Item Identification**
Position: 020
Loop: HL Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To specify basic item identification data
Syntax Notes: **1** If either LIN04 or LIN05 is present, then the other is required.
Comments: **1** 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.

Example: **LIN**BP*20400992*CH*US*VP*P2000-5192*PD*MOTOR MOUNT'**

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
LIN02	**235**	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/Service ID (234) **Valid Code:** **BP** **Buyer's Part Number**	**M ID 2/2**
LIN03	**234**	**Product/Service ID** Identifying number for a product or service **Note:** Volvo or Mack Part Number	**M AN 1/48**
LIN04	**235**	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/Service ID (234) **Valid Code:** **CH** **Country of Origin Code**	**X ID 2/2**
LIN05	**234**	**Product/Service ID** Identifying number for a product or service **Note:** Standard Alpha ISO Codes	**X AN 1/48**

Segment: **SN1** **Item Detail (Shipment)**
Position: 030
Loop: HL Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To specify line-item detail relative to shipment
Comments: **1** SN103 defines the unit of measurement for both SN102 and SN104.

Example: SN12838*EA'**

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
SN102	**382**	**Number of Units Shipped** Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set **Important Note:** Net Quantity Shipped **This Quantity MUST MATCH the equation in all the CLD segment under one LIN Loop:** If CLD*2*120' (2 x 120 = 240) then this Quantity MUST be 240.	**M R 1/10**
SN103	**355**	**Unit or Basis for Measurement Code** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken **Valid Codes:** **EA Each** **FT Foot** **GA Gallon** **GR Gram** **HU Hundred** **KG Kilogram** **LT Liter** **MR Meter** **T3 Thousand Pieces**	**M ID 2/2**

Segment: **PRF** **Purchase Order Reference**
Position: 050
Loop: HL Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To provide reference to a specific purchase order

Example: **PRF*M123456-556'**

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
PRF01	**324**	**Purchase Order Number** Identifying number for Purchase Order assigned by the orderer/purchaser **Note:** Volvo Group Purchase Order Number	**M AN 1/22**

Segment: **CLD** **Load Detail**
Position: 170
Loop: CLD Loop can be repeated 200times
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To specify the number of material loads shipped
Syntax Notes:
Semantic Notes:
Comments: **1** The CLD data segment may be used to provide information to aid in the preparation of move tags and/or bar coded labels.

Example: **CLD*1*2838'**

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
CLD01	**622**	**Number of Loads** Number of customer-defined loads shipped by the supplier	**M N0 1/5**
CLD02	**382**	**Number of Units Shipped** Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set	**M R 1/10**

Note:

The CLD loop (CLD and REF) must be repeated if any of these conditions apply:

- **Quantity in package are different**
- **Cartons or plastic boxes marked S Transport are loaded on more than one pallet. New CLD loop per M or G marked pallet.**

Please see examples at the end of this document.

The Sum of the all the CLD loops CLD01 multiplied by the CLD02 for this part shipped MUST BE EQUAL to the SN1:02, total quantity shipped for this part.

IMPORTANT EXAMPLE:
CLD*2*347' (2 x 347 = 694) The SN1:02 element value must be 694
SN1694*EA'**

Segment: **REF** **Reference Identification**
Position: 180
Loop: CLD Mandatory
Level: Detail
Usage: Mandatory
Max Use: 200
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.

Special Note: This segment is **mandatory** for Volvo Parts, Powertrain &Volvo Construction.

Example: **REF*LS*S10022088'**

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
REF01	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification **Valid Code:** **LS** **Bar-Coded Serial Number**	**M ID 2/3**
REF02	**127**	**Reference Identification** Barcode serial number including the alphanumeric identifier (FACT identifier) is the first character. .Valid identifiers are S, M or G. Please repeat CLD loop if more than one M or G needs ti be sent. **Please see examples at the end of this documentation.** **Note:** **For all Volvo Group shipments, the Odette shipping mark must be the first character in the bar code serial number.** **Repeat REF for each serial number.** **One unique serial number is required for each package Unit.** **If Cartons or plastic boxes marked with serial number are placed on one pallet then ONE REF with the appropriate M or G label be present.** **Please see examples at the end of this document.** **Refer to the Odette Label in specifications for European specs.**	**M AN 1/30**

Segment: **DTM** **Date/Time Reference**
Position: 040
Loop:
Level: Heading
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.

Comments: **This segment is to be used for export shipments only.**

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
DTM01	**374**	**Date/Time Qualifier** Code specifying type of date or time, or both date and time **Valid Code**: **003** **Invoice Date**	**M ID 3/3**
DTM02	**373**	**Date** **Note:** Invoice Date for Export shipments only Date expressed as CCYYMMDD	**M DT 8/8**

Segment: CTT **Transaction Totals**
Position: 010
Loop:
Level: Summary
Usage: Mandatory
Max Use: 1
Purpose: To transmit a hash total for a specific element in the transaction set
Comments: **1** This segment is intended to provide hash totals to validate transaction completeness and correctness.

Example: CTT*003'

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
CTT01	**354**	**Number of Line Items** Total number of HL segments	**M N0 1/6**

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

Example: SE*24*0000001'

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
SE01	**96**	**Number of Included Segments** Total number of segments included in a transaction set including ST and SE segments	**M N0 1/10**
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**

The examples listed below include only the mandatory segments and data elements that are necessary for Volvo requirements.

Example A – Two pallets two parts

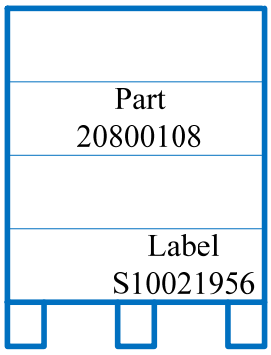
The ASN listed below is for two parts being shipped to Volvo Trucks NA. The parts were shipped on June 20, 2007 by Yellow Freight. This is less than trailer load shipment. The quantity sent in the SN1 segment matches the quantity sent in the CLD segment. These two quantities must match or the ASN will be rejected.
Volvo requires the Odette shipping label for each pallet and/or package received.

```
ST*856*0000001
BSN*00*189721*20070620*1659
DTM*011*20070620*1652*PT
HL*1**S
MEA*PD*G*180*KG
TD5*B*02*YFSY*LT
REF*CN*1633371107
REF*ZB*556
REF*DK*556
N1*ST*VOLVO TRUCK NA*92*04388
N1*SF*ABC CORPORATION*92*54321
HL*2*1*I
LIN**BP*20400992*CH*US
SN1**2838*EA
PRF*M123456-556
CLD*1*2838
REF*LS*S10022088
HL*3*1*I
LIN**BP*20832111*CH*US
SN1**600*EA
PRF*M123456-556
CLD*1*600
REF*LS*S10022093
CTT*003
SE*24*0000001
```

Example B – One pallet one part number different Seller than Ship From

The ASN listed below is for one part being shipped to Volvo Powertrain in Hagerstown, PA. The parts were shipped on June 12, 2007 by UPS.
The seller is not the same entity as Ship From. This is less than trailer load shipment. The quantity sent in the SN1 segment matches the quantity sent in the CLD segment. These two quantities must match or the ASN will be rejected.
Volvo requires the Odette shipping label for each pallet and/or package received.
This information is sent on the CLD loop in the REF segment.

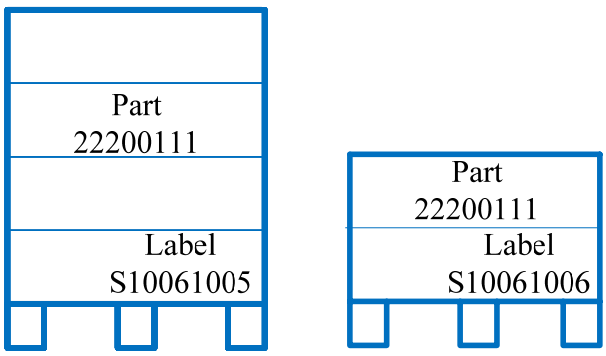
```
ST*856*0000001
BSN*00*189350*20070612*1658
DTM*011*20070612*1650*PT
HL*001**S
MEA*PD*G*24*KG
TD5*B*02*UPSS*A
REF*CN*0359636454
REF*DK*579
REF*ZB*579
N1*SE*AAA CORPORATION*92*11111
N1*SF*ABC CORPORATION*92*54321
N1*ST*VOLVO POWERTRAIN*92*4311
HL*002*1*I
LIN**BP*20800108*CH*US
SN1**320*EA
PRF*M654321-579
CLD*1*320
REF*LS*S10021956
CTT*002
SE*20*0000001
```



Example C – Two pallets one part number different quantity in pallets

The ASN listed below is for one part being shipped to Volvo Powertrain in Hagerstown, PA. The parts were shipped on February 10, 2012 by UPS. This is less than trailer load shipment. The quantity sent in the SN1 segment matches the quantity sent in the both CLD segment. These two quantities must match or the ASN will be rejected.
Volvo requires the Odette shipping label for each pallet and/or package received.
This information is sent on the CLD loop in the REF segment.

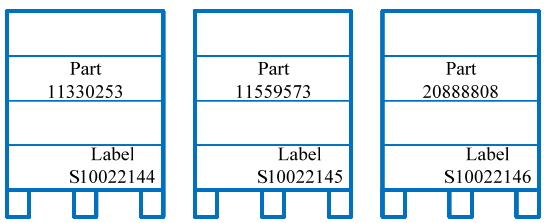
```
ST*856*0000001
BSN*00*321567*20120210*1435
DTM*011*20120210*1430*PT
HL*001**S
MEA*PD*G*24*KG
TD5*B*02*UPSS*A
REF*CN*0359636454
REF*DK*579
REF*ZB*579
N1*ST*VOLVO POWERTRAIN*92*4311
N1*SF*ABC CORPORATION*92*54321
HL*002*1*I
LIN**BP*22200111*CH*US
SN1**550*EA78
PRF*M654392-579
CLD*1*400
REF*LS*S10061005
CLD*1*150
REF*LS*S10061006
CTT*002
SE*21*0000001
```



Example D – Three pallets three parts

The ASN listed below is for three parts being shipped to Volvo Construction Equipment in Arvika, Sweden. The parts were shipped on June 25, 2007. This is less than trailer load shipment.
The quantity sent in the SN1 segment matches the quantity sent in CLD segment. **Volvo requires the Odette shipping label for each pallet and/or package received.**
This information is sent in the CLD loop in the REF segment.

```
ST*856*0000001
BSN*00*189805*20070625*1653
DTM*011*20070625*1648*PT
HL*1**S
MEA*PD*G*410*KG
TD5*B*02*WTVA*A
REF*AW*189805
REF*CN*26065711
REF*DK*905
REF*ZB*905
N1*ST*VOLVO WHEEL LOADERS AB*92*101
N1*SF*ABC CORPORATION*92*54321
HL*2*1*I
LIN**BP*11330253*CH*US
SN1**480*EA
PRF*900963038905
REF*IK*12345678
CLD*1*480
REF*LS*S10022144
HL*3*1*I
LIN**BP*11559573*CH*US
SN1**73*EA
PRF*900963038905
CLD*1*73
REF*LS*S10022145
HL*4*1*I
LIN**BP*20888808*CH*US
SN1**12*EA
PRF*900963038905
CLD*1*12
REF*LS*S10022146
DTM*003*20070625
CTT*004
SE*32*0000001
```



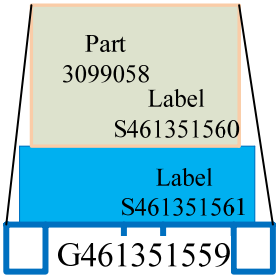
Example E – Two boxes on one pallet different part

The ASN listed below is for two parts being shipped to Volvo Parts North American. The parts were shipped on June 25, 2007. The parts are shipped in 2 boxes bundled on one pallet. The pallet needs its own Transport Label, in this case a G label. This is less than trailer load shipment.

The quantity sent in the SN1 segment matches the quantity sent in the CLD segment.
Volvo requires the Odette shipping label for each pallet and/or package received.
This information is sent in the CLD loop in the REF segment.

This example below shows a mixed load ASN, multiple SKU, with multiple cases on a single pallet.

```
ST*856*0000001
BSN*00*189805*20070625*1653
DTM*011*20070625*1648*PT
HL*1**S
MEA*PD*G*41*KG
TD5*B*02*WTVA*A
REF*AW*189805
REF*CN*26065711
REF*DK*905
REF*ZB*905
N1*SF*ABC CORPORATION*92*54321
N1*ST*VOLVO PARTS NA*92*4173
HL*2**I
LIN**BP*3099058*CH*US
SN1**1000*EA
PRF*M599496-573
CLD*1*1000
REF*LS*G461351559
REF*LS*S461351560
HL*3**I
LIN**BP*85104910*CH*US
SN1**40*EA
PRF*M599496-573
CLD*1*40*CTN90
REF*LS*G461351559
REF*LS*S461351561
CTT*3
SE*28*129789637
```



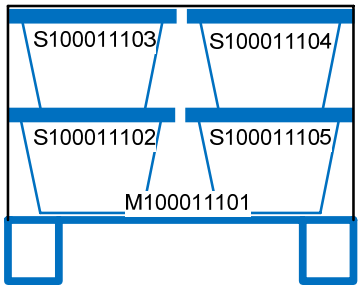
Example F – Four part numbers on three pallets using M and G label and S Labels

The ASN listed below is for four parts shipped to Volvo Penta (Duluth Georgia)
There are 4 separate part numbers packaged in 12 separate boxes or cases which are loaded on 3 pallets.
The first part is loaded on Pallet 1 and 2, the second part on pallet 2 and the remaining are loaded on pallet 3.

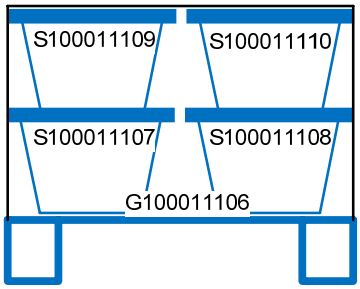
Volvo requires the Odette shipping label for each pallet and/or package received.

```
ST*856*00000124
BSN*00*104723*20081028*2343
DTM*011*20081028*2343
HL*1**S
MEA**G*400*KG
TD5*B*2*CTII*M
TD3*TL*CTII*CENTRAL TR
REF*BM*104723
REF*DK*AX-4 573
REF*ZB*573
N1*ST*VOLVO PENTA NORTH AMERICA*92*4125
N1*SF*ABC CORPORATION*92*54321
HL*2*1*I
LIN**BP*374010021*CH*US
SN1**600*EA
PRF*M25316-573***20081028
CLD*4*100
REF*LS*M100011101
REF*LS*S100011102
REF*LS*S100011103
REF*LS*S100011104
REF*LS*S100011105
CLD*2*100
REF*LS*G100011106
REF*LS*S100011107
REF*LS*S100011108
HL*3*1*I
LIN**BP*385010021*CH*US
SN1**100*EA
PRF*M25316-573***20081028
CLD*2*50
REF*LS*G100011106
REF*LS*S100011109
REF*LS*S100011110
HL*4*1*I
LIN**BP*396010021*CH*US
SN1**800*EA
PRF*M25316-573***20081028
CLD*2*400
REF*LS*G100011111
```

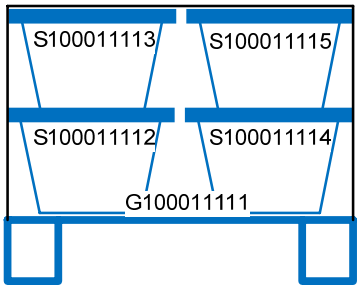
```
REF*LS*S100011112
REF*LS*S100011113
HL*5*1*I
LIN**BP*396110021*CH*US
SN1**800*EA
PRF*M25316-573***20081028
CLD*2*400
REF*LS*G100011111
REF*LS*S100011114
REF*LS*S100011115
CTT*5
SE*56*00000124
```



This pallet is marked with an M barcode identity There is only one part number loaded on the pallet



This pallet is marked with a G barcode identity There is more than one part number loaded on the pallet



This pallet is marked with a G barcode identity There is more than one part number loaded on the pallet