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Page  
**1(14)**

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# **SCANIA VDA4902 SPECIFICATION**

**VERSION 4:7**



Document type	Title	Issue
SPECIFICATION	Scania VDA4902 Specification	4:7
Approved by (department acronym, name)		
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Issued by (department acronym name phone)	Date	Page
OISE Sebastian Sandh support@edi.scania.com	2020-09-30	2(14)

## CONTENTS

<b>DOCUMENT CONTROL</b> .....	<b>3</b>
<b>GLOSSARY</b> .....	<b>3</b>
<b>VDA4902 EXAMPLE</b> .....	<b>3</b>
<b>INTRODUCTION</b> .....	<b>4</b>
<b>SUMMARY OF THE ELEMENTS OF THE LABEL</b> .....	<b>5</b>
<b>SIZE AND MATERIALS</b> .....	<b>6</b>
Label design .....	6
Printing.....	6
<b>POSITION AND AFFIXING THE LABEL</b> .....	<b>7</b>
<b>BAR CODE SYMBOLOGY</b> .....	<b>9</b>
Code format.....	9
Code density and dimensions.....	9
Printing and quiet zones.....	9
Linear bar code symbol print quality .....	9
Type of font.....	10
<b>DATA AREA CONTENT AND REFERENCE</b> .....	<b>11</b>
<b>DATA AREAS AND TITLES</b> .....	<b>11</b>
Field content .....	11
Receiver area (field 1).....	11
Ship To /Dock / Gate (field 2).....	11
Advice Note No. (field 3) .....	12
Part No. (field 4) .....	12
Quantity (field 5) .....	12
Supplier number area (field 6) .....	12
Serial No. (field 7).....	13
Description (field 8).....	13
Date area (field 10) .....	13
Engineering (field 11) .....	13
Lot no. (field 12).....	13



Document type <b>SPECIFICATION</b>	Title Scania VDA4902 Specification	Issue 4:7
Approved by (department acronym, name) OISE Mie Åstrand		
Issued by (department acronym name phone) OISE Sebastian Sandh support@edi.scania.com	Date 2020-09-30	Page 3(14)

## DOCUMENT CONTROL

This is Scania version 4:7 of “Warenanhänger VDA 4902, Version 4” for Scania approved packaging:

Date	Version history
2020-03-31	Overall changes of specification
2020-04-29	Changes to layout Changed 'Issued by' Changed 'Approved by' Changed version info in Document Control Update Issue to 5 Added Captions to images and tables
2020-07-02 – 2020-09-28	Added Information about Batch number on the example on page 15. Removed specific character restrictions Modified text size restrictions Changed text size restrictions Added references to EDI messages with segment to Table 1

## GLOSSARY

ODETTE = Organisation for Data Exchange Through Tele transmission in Europe  
 OTL = Odette Transport Label  
 EDI = Electronic Data Interchange  
 EDIFACT = Electronic Data Interchange for Administration, Commerce and Transport  
 DELFOR = EDIFACT Delivery Forecast message  
 DESADV = EDIFACT Despatch Advice message  
 DELINS = Odette Delivery forecast message  
 AVIEXP = Odette Despatch Advice message  
 VDA = Verband Der Automobilindustrie

## VDA4902 EXAMPLE

Receiver <b>SCANIA PARTS EUROPE OUDSBERGEN BELGIUM</b>	Ship To/Dock/Gate <b>597A 597</b>	Advice Note No. (N) <b>12345678</b> 
Part No. (P) <b>1534703</b> 		
Quantity (Q) <b>100</b> 	Description <b>STRAP</b> Package Type / Dangerous Goods	
Supplier (V) <b>1234</b> 	Date <b>D200130</b>	Engineering
Serial No. (S) <b>123456789</b> 	Lot No. (H)	

Document type	Title	Issue
SPECIFICATION	Scania VDA4902 Specification	4:7
Approved by (department acronym, name)		
OISE Mie Åstrand		
Issued by (department acronym name phone)	Date	Page
OISE Sebastian Sandh support@edi.scania.com	2020-09-30	4(14)

---

## INTRODUCTION

This specification is the Scania profile of VDA 4902 version 4 for Scania approved packaging also referred to as “VDA Transport Label” in this document.

All goods (excluding test articles and sample products) packed in Scania KLT and Scania approved boxes (special exception for small/mini boxes) must be marked with a VDA Transport Label when classic EDI or Web-EDI is used for despatch advice messages. The VDA Transport Label is used on individual Scania approved boxes and can be put on mini- and small boxes as well, where the adhesive is used.

All pallets must also be marked with a Master label, according to Scania profile of Odette Transport Label.

Some data on the label must be Collect from the EDI delivery instruction message (DELFOR or DELINS) and some data must correspond to data in the EDI despatch advice message (DESADV or AVIEXP). This is specified in samples below. In case data transmission is not established, the corresponding information must be Collect from the delivery schedule.

The supplier is responsible for providing labels with bar codes that meet Scania specifications. To verify that bar code symbols meet the specifications, Scania recommends the use of a bar code verifier.

Before transport labels are used in production, samples must be sent to Scania for approval.

- First in a PDF format to [support@edi.scania.com](mailto:support@edi.scania.com)
- After approval of the digital copy, send a physical sample by post to  
*Scania CV AB*  
*By 284 OISE, EDI support*  
*SE-151 87 Södertälje*  
*SWEDEN*

When changing hardware and/or software for printing of transport labels, new samples must be sent to Scania for approval..

Please refer to the Scania Logistics Manual for more information regarding use of the OTL in combination with other goods labels. See more at Scania Supplier Portal<sup>1</sup>.

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<sup>1</sup> Access to Scania Supplier Portal is handled by your purchaser at Scania.

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**Scania VDA4902 Specification**

Issue  
**4:7**

Date  
**2020-09-30**

Page  
**5(14)**

## SUMMARY OF THE ELEMENTS OF THE LABEL

Receiver	Ship To/Dock/Gate	Advice Note No. (N)
1	2	3
Part No. (P)		
4		
Quantity (Q)	Description	
5	8	
Package Type / Dangerous Goods		
Supplier (V)	9	
6	Date	Engineering
	10	11
Serial No. (S)	Lot No. (H)	
7	12	

Table 1 VDA4902 Transport Label data areas

Field No	Field	Bar code identifier	Text size height	Bar code size	Condition	EDI Message and Segment
1	<b>Receiver</b> Scania's unloading location		≥3 mm		M	<b>DELFOR:</b> NAD+CN 3036 & 3124 <b>DELINS:</b> CSG 3036 & 3124
2	<b>Ship To /Dock / Gate</b> Scania's final delivery point		≥5 mm		M	<b>DELFOR:</b> LOC+11/LOC+159 <b>DELINS:</b> CSG 3921
3	<b>Advice note No</b> Suppliers advice note number	N	≥3 mm	8-9 mm	M	<b>DESADV:</b> BGM 1004 <b>AVIEXP:</b> MID 1004
4	<b>Part No.</b> Scania's part number	P	≥3 mm / ≥9 mm <b>(bold)</b>	8-9 mm	M	<b>DELFOR:</b> LIN 7140 <b>DELINS:</b> ARD 7304
5	<b>Quantity</b> Package or transport unit quantity	Q	≥3 mm	8-9 mm	M	<b>DESADV:</b> QTY+52 6060 <b>AVIEXP:</b> TCO 6853
6	<b>Supplier</b> Scania's code on the supplier	V	≥3 mm	8-9 mm	M	<b>DELFOR:</b> NAD+MF 3039 <b>DELINS:</b> MDT 3296
7	<b>Serial No</b> Supplier package identification number	S	≥3 mm	8-9 mm	M	<b>DESADV:</b> GIR 7402 <b>AVIEXP:</b> NCO 7102
8	<b>Description</b> Scania's part description				O	<b>DELFOR:</b> IMD 7008 <b>DELINS:</b> ARD 7008
9	<b>Package Type and/or Dangerous Goods</b> Condition: N				N	
10	<b>Date</b> Latest date for use(U) or Despatch date(D) or Date of production(P)		≥3 mm		M	
11	<b>Engineering</b> Scania's ECO number		≥3 mm		D	
12	<b>Lot No.</b> Supplier's identification for batch of produced documentation parts	H (if bar code added)	≥3 mm (if bar code added) ≥7 mm		D	<b>DESADV:</b> GIR 7402 BX <b>AVIEXP:</b> ADP 7338

M	Mandatory
C	Conditional
D	Dependent
N	Not Used

Table 2 Legend for Table 1

## SIZE AND MATERIALS

### Label design

The format of the VDA Transport Label for KLT is 210 x 74 mm. The label paper must be white with black printing, with minimum (Print Contrast) PCS=75. To minimise the risks of distortion it is recommended that label paper is 200-210 g/m<sup>2</sup> and weather resistant. The label must be durable enough to ensure readability at its destination. The outer border lines must not be printed on the label.

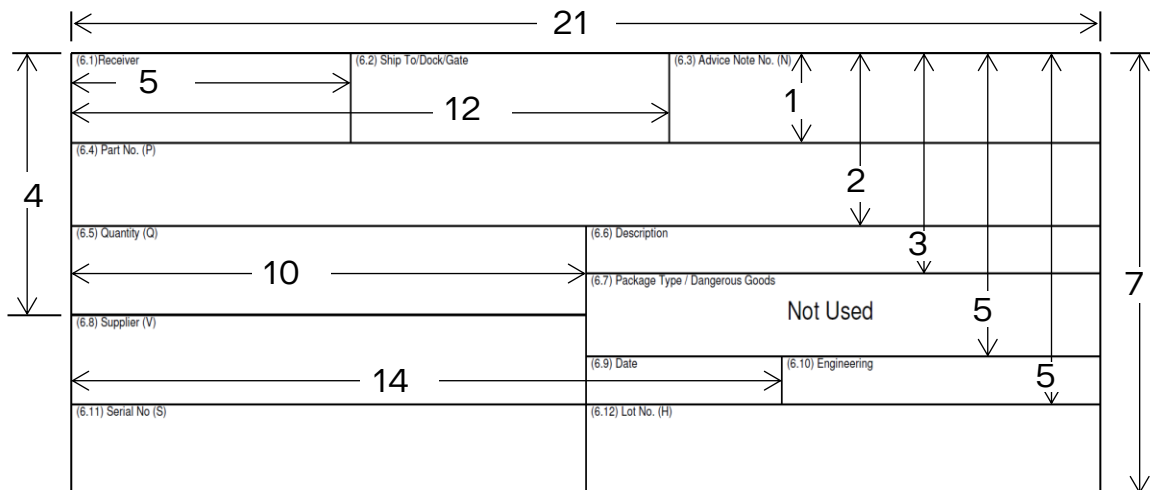


Figure 1 Size of the different fields on the VDA4902 in millimetres

### Printing

It is possible to use the same printer that is used for printing of Odette transport labels without changing paper, two possibilities:

1. Print out of two small labels on the DIN A5 print area and then cut to a height of 74 mm.
2. Print out one small label on the lower half of the DIN A5 print area and then fold in half to a height of 74 mm. The upper half is not printed.

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Title  
Scania VDA4902 Specification

Date  
2020-09-30

Issue  
4:7

Page  
7(14)

## POSITION AND AFFIXING THE LABEL

Placing of the label on the transport unit must be in accordance with Scania Packing Manual that can be found at Scania Supplier Portal.

The VDA Transport Label for KLT fits precisely into the KLT holders (label pockets). The labels must be inserted into the label pockets and secured against loss (e.g. by adhesive dots).



MH-3147



MH-4147



MH-6147

The label is to be inserted in the label frame and, if appropriate, secured with at most 2 adhesive points. The adhesive points may not conceal important particulars, the dimension and arrangements of the label frame are also suitable for mechanical voucher reading.

No additional adhesive tags, papers or self-adhesive labels may be applied. All users of such identification marks cause quality losses by making unambiguous identification and automatic scanning more difficult. Staples are NOT allowed to be used on any boxes.

Recycling is rendered more difficult and costs result for sorting, cleaning and removal of adhesive residues.

For Mini- and Small boxes the VDA4902 label can be used. Then it is accepted to use the adhesive and attach the label to the box.

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Title  
**Scania VDA4902 Specification**

Issue  
**4:7**

Date  
**2020-09-30**

Page  
**8(14)**

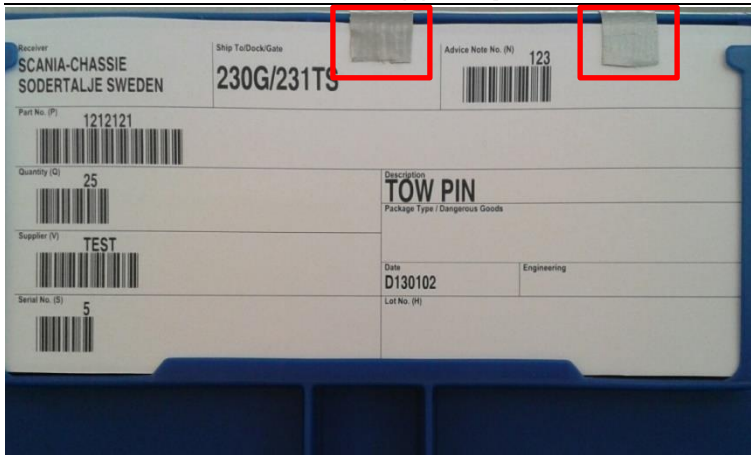


Figure 2 VDA label inserted in the KLT holder (if needed secured with e.g. adhesive dots/tape)



Figure 3 VDA label attached to the Mini- or Small box where the adhesive at the back of the label is used



Document type  
SPECIFICATION

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Title  
Scania VDA4902 Specification

Date  
2020-09-30

Issue  
4:7

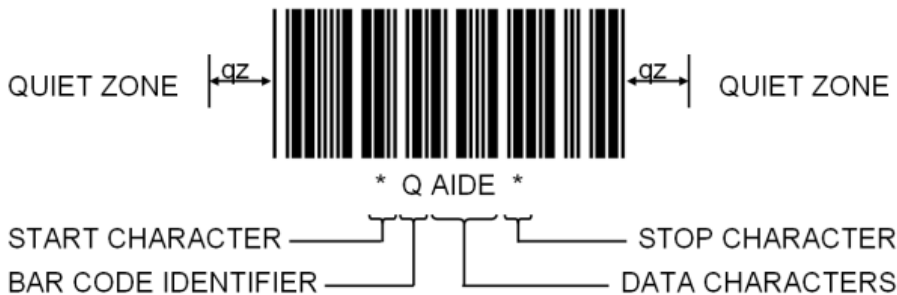
Page  
9(14)

## BAR CODE SYMBOLOGY

Symbology used is Code 39 as defined in ISO/IEC 16388[1], with the following specializations.

### Code format

The format of each element of bar code is a start character followed by the data identifier followed by the data and a stop character. The data identifier identifies the data element and is essential when more than one element of data is being scanned. The data identifier is omitted from the human readable characters but is printed to the right of the title for each data field.



### Code density and dimensions

The bar heights must be between 8 mm and 9 mm high. For each bar code symbol, the average width [X] of the narrow elements must be within the range of:  $[X] = 0,33 \pm 0,11$  mm to  $0,43 \pm 0,15$  mm

The ratio of the nominal width of the wide elements to the nominal width of the narrow elements must be 3:1 with an allowable range of 2.8:1 to 3.2:1.

### Printing and quiet zones

Bar codes must be left-justified with quiet zones (begin and end margins) of at least 6,4 mm.

### Linear bar code symbol print quality

The quality of the printed linear bar code symbol must be measured in accordance with ISO/IEC 15416[2]. The minimum symbol grade must be 1,5/10/660 where:

- minimum print quality grade at point of production = 1,5 (C);
- measurement aperture = 0,250 mm (approximately 10 mil/0,010 inch);
- inspection wavelength = 650 nm to 670 nm.

It is important that the linear bar code is decodable throughout the system of use. For this reason, quality tests should not be limited to label production inspection but also should be followed through to the end user. The above symbol quality and measurement parameters assure scan ability over a broad

Document type	Title	Issue
SPECIFICATION	Scania VDA4902 Specification	4:7
Approved by (department acronym, name)		
OISE Mie Åstrand		
Issued by (department acronym name phone)	Date	Page
OISE Sebastian Sandh support@edi.scania.com	2020-09-30	10(14)

---

range of scanning environments. Labellers should not be required to guarantee the print quality of a label when it is received by the customer.

Print quality at the point of production should be higher than the requirement at the point of use.

Unattended scanning may require a higher print quality grade than identified above. Consequently, those implementing this standard for unattended scanning applications should discuss print quality requirements with trading partners.

**DATA AREA CHARACTERISTICS**Error! Reference source not found.

The basic rule is that non-significant zeros and blanks in the data string must be suppressed, when the bar codes and/or human readable characters are printed. If leading zeros are used (for example in the document number area) on the transport label, then the corresponding information in AVIEXP/DESADV or other EDI-messages, as well as on accompanying documents have to contain leading zeros as well.

## Type of font

Use of the proportionate ARIAL or ARIAL NARROW font is recommended. A similar font from the same family may also be used.

According to the standard, the font sizes 6 pt. must be selected for the field and line titles.

The font sizes for the data contents must be selected according to the data areas and titles descriptions in Chapter 6. If the field lengths are exceeded in individual cases, the font size must be reduced to the necessary size.

Document type  
SPECIFICATION

Title  
Scania VDA4902 Specification

Issue  
4:7

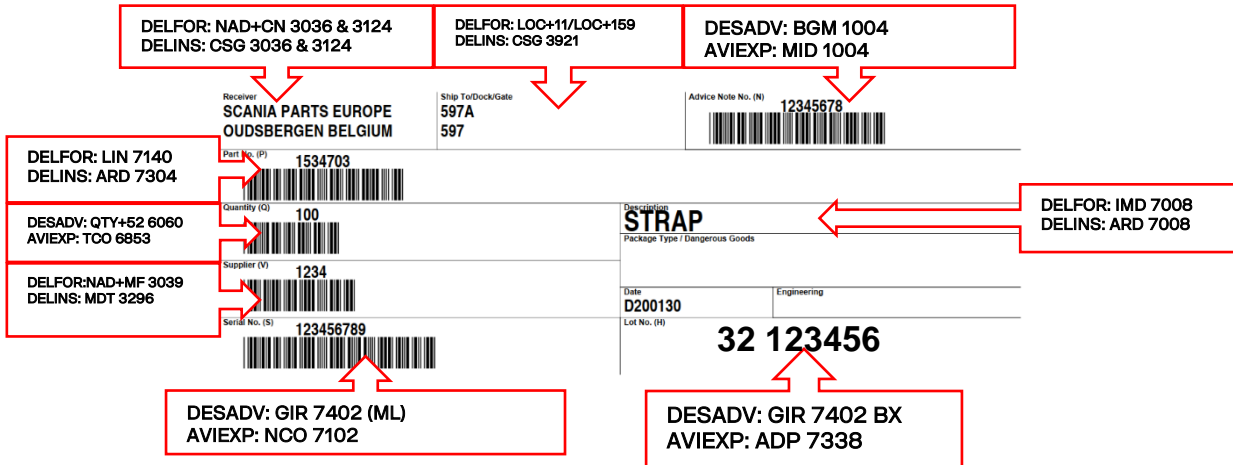
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Issued by (department acronym name phone)  
OISE Sebastian Sandh support@edi.scania.com

Date  
2020-09-30

Page  
11(14)

## DATA AREA CONTENT AND REFERENCE



## DATA AREAS AND TITLES

Each data area is to be separated by thin lines and must contain its title and data identifier, if appropriate, in the upper left-hand corner, as shown in the illustrations. Outer border lines must not be printed within the active 210 x 74 mm format area. Titles of data areas may be printed in the supplier's language with 1,5 mm high characters (6 pt.).

### Field content

#### *Receiver area (field 1)*

The destinations name and address as designated by Scania

- Condition: M
- Human readable characters:  $\geq 3$  mm high on 2 lines
- Information on first line Collect from:
  - DELINS CSG 3124
  - DELFOR NAD+CN 3124
- Information on second line Collect from:
  - DELINS CSG 3036
  - DELFOR NAD+CN 3036

#### *Ship To /Dock / Gate (field 2)*

Final destination point, the name and place to which the goods are to be finally delivered.

- Condition: M
- Collect from:
  - DELINS CSG 3921
  - DELFOR LOC+11/LOC+159
- Human readable characters:  $\geq 5$  mm high (20 pt.)

Document type	Title	Issue
SPECIFICATION	Scania VDA4902 Specification	4:7
Approved by (department acronym, name)		
OISE Mie Åstrand		
Issued by (department acronym name phone)	Date	Page
OISE Sebastian Sandh support@edi.scania.com	2020-09-30	12(14)

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### ***Advice Note No. (field 3)***

- Human readable characters:  $\geq 3$  mm high (12 pt.)
- Data identifier for bar code: N
- Collect from:
  - AVIEXP MID 1004
  - DESADV BGM 1004

### ***Part No. (field 4)***

Part number designated by Scania for the part in the package

- Condition: M
- Human readable characters:  $\geq 3$  mm high in bold typeface (12 pt.)
- Data identifier for bar code: P
- Collect from:
  - DELINS ARD 7304
  - DELFOR LIN 7140

### ***Quantity (field 5)***

Quantity in the package. Corresponds normally to Scania packing instructions. When the unit of measurement is pieces, no notation is required. When the unit of measurement is kilograms, pairs, meters, etc. it must be noted in human readable form only. When used, the unit of measurement must be directly to the right of the human readable quantity. The unit of measurement must not be bar coded.

- Condition: M
- Human readable characters:  $\geq 3$  mm high (Quantity) (12 pt.)/  $\geq 2,5$  mm
- Data identifier for bar code: Q
- Collect from:
  - AVIEXP TCO 6853
  - DESADV QTY+52 6060

### ***Supplier number area (field 6)***

Supplier number as designated by Scania, **4-digit**.

- Condition: M
- Human readable characters:  $\geq 3$  mm
- Data identifier for bar code: V
- Bar Code Size: 8-9 mm
- Information must correspond to: DESADV Consignor - Consignor's identification number
- Collect from
  - DELFOR: NAD+MF 3039
  - DELINS: MDT 3296

Document type	Title	Issue
SPECIFICATION	Scania VDA4902 Specification	4:7
Approved by (department acronym, name)		
OISE Mie Åstrand		
Issued by (department acronym name phone)	Date	Page
OISE Sebastian Sandh support@edi.scania.com	2020-09-30	13(14)

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### ***Serial No. (field 7)***

The serial number must be a unique number (not necessarily in sequential order) assigned by the supplier. Suppliers must avoid repeating serial numbers within at least one year.

- Condition: M
- Human readable characters:  $\geq 3$  mm (12 pt.) high
- Data identifier for bar code: S.
- Information must correspond to: AVIEXP/DESADV Individual package - Package label number
- Collect from:
  - DESADV: GIR 7402 (ML)
  - AVIEXP: NCO 7102

### ***Description (field 8)***

Description as designated by Scania.

- Condition: C
- Human readable characters:  $\geq 5$  mm high (20 pt.)
- Collect from:
  - DELINS ARD 7008
  - DELFOR IMD 7008

### ***Date area (field 10)***

Date of production, despatch date or date for latest use of the product.

- Condition: M
- The date is printed in the format YYMMDD (Y = year, M = month, D = day) preceded by the character "P", "D" or "U".
  - Production date PYYMMDD
  - Despatch date DYYMMDD
  - Latest date for use UYYMMDD
- Human readable characters:  $\geq 3$  mm

### ***Engineering (field 11)***

Designated by Scania to specify ECO No. (Engineering change order)

- Condition: D
- Human readable characters:  $\geq 3$  mm (12 pt.) high

### ***Lot no. (field 12)***

Reference number assigned by the manufacturer to designate grouping of parts within the same production batch. This data area is used for parts with documentation or charge number requirements. If the article has a charge number requirement and if given in bar coded form as well as in human

Document type	Title	Issue
SPECIFICATION	Scania VDA4902 Specification	4:7
Approved by (department acronym, name)		
OISE Mie Åstrand		
Issued by (department acronym name phone)	Date	Page
OISE Sebastian Sandh support@edi.scania.com	2020-09-30	14(14)

---

readable form, the batch number/code has to be stated first and then the cast number. They must be divided by a blank

- Condition: D
- Human readable characters:  $\geq 3$  mm (if bar code added) /  $\geq 7$  mm
- Data identifier for bar code: H
- Bar Code Size: 8-9 mm (if bar code added)
- Information must correspond to: DESADV/AVIEXP Production batch - Batch number
- Collect from
  - DESADV: GIR 7402 BX
  - AVIEXP: ADP 7338