Supplement to VDA 4902
(Barcode transport label)

Dirk Liebhard, 5/PL1
30.10.2007

Contents

1 VDA transport label

1.1 Labelling bins with the VDA transport label

The transport label uniquely identifies means of transport and load carriers in the internal material flow and in transit between the supplier, forwarder and recipient of the goods. All suppliers must therefore ensure that all means of transport and load carriers carry a current, accurately completed, barcoded goods tag in accordance with VDA Recommendation 4902 Version 4 (or later version). It must be ensured that all the details on the tags match the contents of the packs or load carriers. To guarantee correct identification, suppliers must remove out-of-date goods tags and labelling from packages or load units before using them.

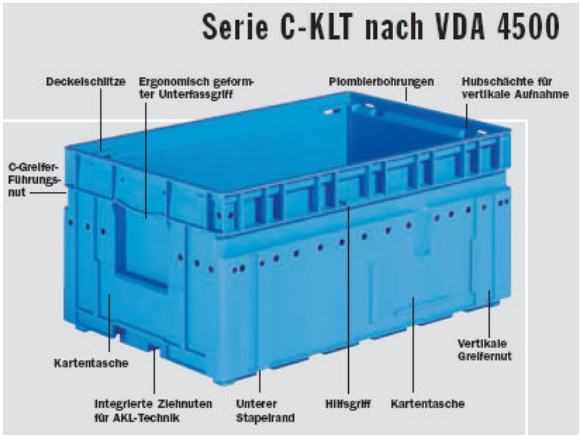
STIHL reserves the right to charge suppliers with the extra costs arising from disruption due to missing or illegible labels.

VDA Recommendation 4902 Version 4 describes two label sizes:

- Size 210 mm x 148 mm (see page 5)
- Size 210 mm x 74 mm (KLT label) (see page 9)

As a general principle, the A5 sheet (size 210 mm × 148 mm) should always be used as the main goods tag on packages.

The KLT label size 210 mm × 74 mm should be used in connection with the VDA small load carrier (KLT) system (VDA 4500). The KLT label should be inserted into the label pocket provided.



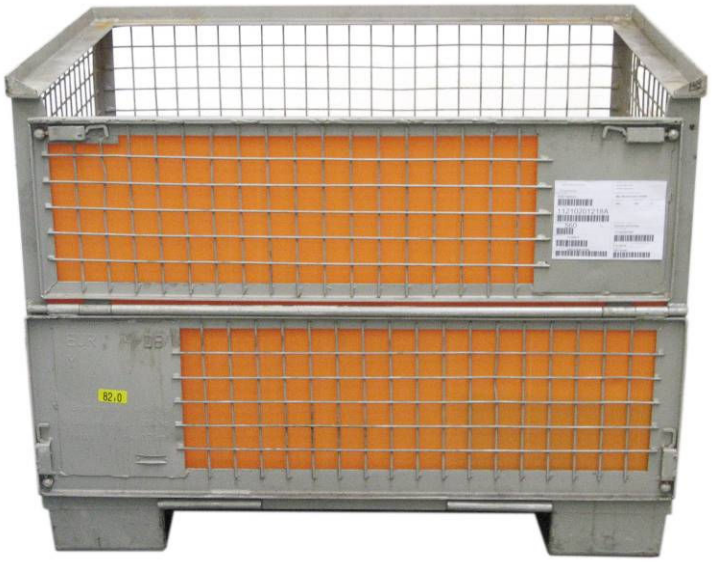
When using boxes, the KLT labels should be affixed either with adhesive across the whole label or by four adhesive dots at the corners.

In addition to labelling the transport unit, it is essential for every single KLT to be identified by a VDA goods tag.

Adhesive stickers should not be attached when using VDA small load carriers.

Please refer to VDA Recommendation 4902 Version 4 (or later version) for the grade of paper to be used.
Please pay attention particularly to chapter 6.1.5, Methods of Attachment.

If the label holders provided on large load carriers cannot be used, the VDA goods tags should be attached using easy to remove, fully removable adhesive labels or adhesive dots.



1.2 Sample of VDA goods tag size 210 mm × 148 mm

1.3 Data elements in the standard 210 × 148 mm goods tag

Field no.	Field name / data element	Notes	Required / Optional	Barcode
(1)	Goods receiver	ANDREAS STIHL AG & Co. KG	R	No
(2)	Delivery plant	Refer to call-off data Plant D5 Mörikestraße 81 + 83 71636 Ludwigsburg	R	No
(3)	Delivery note number	The delivery note number must match the data in the delivery note or electronic data	R	Yes
(4)	Supplier address (short form)	From the delivery schedule header	R	No
(5)	Net weight	Net weight of load carrier in kg	R	No
(6)	Gross weight	Gross weight of load carrier	R	No
(7)	Number of packages	Number of packages delivered	R	No
(8)	Customer's part number	STIHL material number in ########### format from the delivery schedule classification	R	Yes
(9)	Quantity per package	Per load unit / bin according to the delivery packing specification	R	Yes
(10)	Description of delivery or	Material short text from call-off data	R	No

	service			
(11.1)	Supplier's part number	Internal part number used by the supplier	O	No
(12)	Supplier ID	Supplier identification	R	Yes
(13)	Date	P YY.MM.DD (date of production) D YY.MM.DD (date of dispatch) The date of dispatch is acceptable if the date of production can be calculated from it.	R	No
(14)	Engineering change status	Revision status / change status material or drawing	O	No
(15)	Package ID (S/M/G)	The package ID number is numeric and uniquely identifies the package within a year. This number is allocated per package by the supplier and should be used once a year only. The package ID numbers must be quoted on VDA 4913 and on the electronic document accompanying the goods / delivery note and they must match. S = packages without sub-packaging M = load unit containing only one part number G = mixed load unit / pallet	R	Yes
(16)	Batch number	Batch number / manufacturer ID number	O	Yes
(17)	Supplier address (long form)		O	No

1.4 Size and contents of 2D barcode PDF417

The 2D barcode in PDF417 format on the goods tag contains the data on the slip in coded form. This enables the package data to be captured very efficiently during incoming goods processing.

The structure and contents are based on the GTL (Global Transport Label) standard.

PDF Header and Trailer

The actual PDF barcode user data are preceded by a header identifying the data format. This is followed by the data fields, each of which is specified by an identifier (e.g. P = customer's part number). Due to use of the ANSI data code, the identifiers sometimes differ from the identifiers defined according to VDA (e.g. ANSI 16K = delivery note; VDA N = delivery note).

Control character	Description	Example
[)>	Message Header (HEX 5B 29 3E, ASCII 91 41 62)	[)>
$^{R}_{S}$	Format Header (Record separator, HEX 1E, ASCII 30)	$^{R}_{S}$
06	Data Code (according to ISO 15434)	06
$^{G}_{S}$	Data Element Separator (HEX 1D, ASCII 29)	$^{G}_{S}$
Data	Identifier + Data + Separator	16K1234567 $^{G}_{S}$
…	…	…
$^{R}_{S}$	Format Trailer (refer to Header)	$^{R}_{S}$
EOT	Message Trailer (End of Transmission, HEX 04, ASCII 04)	

Data identifiers according to ANSI

DI	Field designation	Format	Required / Optional	Reference (call-off VDA 4905)	Example
2L	Goods receiver	Text	R	SA 512, item 03 (customer plant)	D5
20L	Delivery plant	Num	R	SA 512, item 11, refer to Goods receiver	D5
21L	Place of storage / place of assembly	Text	O	SA 512, item 19	Blank
4W	Application code	Text	O	SA 512, item 17	S
16K	Delivery note number	Num	R		908146943
P	Customer's part number	Text	R	SA 512, item 08	11210201218A
21P	Change index	Text	O		
2P	Change status	Text	O		
B	Customer's packaging number	Text	R	STIHL packaging according to EDI Guideline	EF1
V	Supplier number	Text	R	STIHL supplier number	57349611
12D	Date	Text	R	YYMMDD	070131
1J or 5J or 6J	Licence plate	Text	R	1J = Single Label 5J = Mixed Label 6J = Master Label	See example below
7Q	Quantity per package	Num	R	Format '9999999v999' + unit of quantity	0000560000PC
E2	Batch number	Text	O		
4L	Country of origin	Text	R	According to Standard Country Code list	DE
K	Order number	Num	R	SA 512, item 10	55000123
5K	Delivery schedule number	Num	O		

Other data fields can also be transmitted (as optional fields), but these must be agreed with STIHL beforehand.

Example of data flow for the above package

[)>$^{R}_{S}$
06$^{G}_{S}$
2LD5$^{G}_{S}$
20LD5$^{G}_{S}$
21L$^{G}_{S}$
4WS$^{G}_{S}$
16K908146943$^{G}_{S}$
P11210201218A$^{G}_{S}$
21P01$^{G}_{S}$
2PE01$^{G}_{S}$
BEF1$^{G}_{S}$
V57349611$^{G}_{S}$
12D070131$^{G}_{S}$
1JUN123456789987654321$^{G}_{S}$

7Q0000560000PC[GS]
E21481781001 [GS]
4LDE [GS]
K55000123 [GS]
[RS]
EOT

Structure of Licence Plate

Example: 1JUN123456789987654321

1J :	Licence plate identifier (1J = Single Label, 5J = Mixed Label, 6J = Master Label)
UN:	DUNS number ISO allocation point
123456789:	DUNS (Data Universal Numbering System) = company's unique number (see also http://www.dnbgermany.de/German/Database/duns.htm)
987654321:	unique 9-digit package number

1.5 Sample of VDA goods tag size 210 mm x 74 mm (KLT label)

1.6 *Data elements* in VDA goods tag size 210 mm × 74 mm (KLT label)

Field no.	Field name / data element	Notes	Required / Optional	Barcode
(1)	Goods receiver (short form)	ANDREAS STIHL AG & Co. KG	R	No
(2)	Delivery plant	Refer to delivery schedule data Plant D5 Mörikestraße 81 + 83 71636 Ludwigsburg	R	No
(3)	Delivery note number	The delivery note number must match the data in the delivery note or electronic data	R	Yes
(8)	Customer's part number	STIHL material number in ############ format from the	R	Yes

		delivery schedule classification		
(9)	Quantity per package	Quantity / number of parts in package	R	Yes
(10)	Description of delivery or service	Material short text from call-off data	R	No
(11.1)	Supplier's article number	Internal article number used by the supplier	O	No
(12)	Supplier ID	Supplier identification	R	Yes
(13)	Date	P YY.MM.DD (date of production) D YY.MM.DD (date of dispatch) The date of dispatch is acceptable if the date of production can be calculated from it.	R	No
(14)	Engineering change status		R	No
(15)	Package ID (S/M/G)	The package ID number is numeric and uniquely identifies the package within one year. This number is allocated per package by the supplier and should be used once a year only. The package ID numbers must be quoted on VDA 4913 and on the electronic document accompanying the goods / delivery note and they must match. S = packages without sub-packaging M = load unit containing only one part number G = mixed load unit / pallet	R	Yes
(16)	Batch number	Batch number / manufacturer ID number	O	Yes