

VOLVO	Dokumentnamn/Name of document Data Base description		Utgåva/Version 6.0	Sida/Page 1 (16)
Företagsnamn/Company Name Volvo Wheel Loaders AB	Reg nr/Reg. No.	Infoklass/Info class	Ersätter/Replaces	
Utfärdare (enhet, namn, tel, sign)/Issuer (dept., name, phone, sign.) DVP, Eirik Isene, +46 16 151553		Datum/Date 98-01-20	Bilaga/Appendix	Flik/Insert
Ärende/Subject The EA60 & EF60, PROST Article Data Bases			Fastställt/Approved	
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1. Data Base contents and structure.

The EA60 data base is a DL/1 HIDAM data base used under IMS.

The EF60 data base is a DB2 data base used under IMS most of the tables are updated automatically through "exits" in the DBD when the DL/1 data base is updated (Mirrored). The asterisks signify existence of "exits" from the DBD to EF60.

SEGM.	ELEMENT	SIZE	NAME
01	IDARTNR	X8	* Part Number or Article Number
	BESV	X25	* Part Description, long, Swedish
	BESVKORT	X15	* Part Description, short, Swedish
	KDHOM	N1	* Homonym code for translated from Swedish to English
	KDARTYP	X3	* Code for Article Type
	IDSTDRE1	X5	* Standard registration No, part 1
	IDSTDRE2	X5	* Standard registration No, part 2
	BESORT	X4	* Unit of measure, code
	IDINIT	X6	* Department description where P/N were assigned.
	TIUTG	N8	* Date for kill or termination in last structure
	FLIFBH	N1	* Flag for Engineering Approved Source (EAS or IF)
	BEKONENH	X6	Borrowed from stated Volvo Company
	KDLAGKR	X1	Code for legal requirements which apply
	IDRITNR	X8	* P/N for a drawing on which it is drawn. (reference)
	KDRITST	X1	* Drawing Status (Validity) is either U or P.
	IDUTG	X2	* Issue number of the drawing, 01 - 99
	KDRITFOR	X2	* Drawing size, code
	KDORIGST	N2	* Status of the drawing original.
	BEPLATS	X8	* Archive location
	TIREGDAT	N8	* Date of P/N assignment
	TIUPDDAT	N8	* Date when P/N was last changed.
	LLC	N2	Low Level Code
	IDFOEDD	X8	Born by (P/N or ECN)
	IDDOED	X8	Died by (P/N or ECN)
	KDKANSV	X1	* Responsibility for the P/N and privilege to change
	KDURSPR	X1	* Origin of the P/N, VCE Product Company.
	BENAMUTL	X25	* Part Description, long, English
	FORKUTL	X15	* Part Description, short, English
	BEREG	X5	* P/N assigned by (initials)

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02 Customer Part Number

IDKUNDR N6 Customer number (IND)
IDARTKUN X30 Customer Part Number

03 External Manufacturer of parts

BEFIRMA X36 Company name as originator of the drawing.
IDARTFAB X30 The originator's own P/N

04 Loan to a Volvo Company

BEKONENH X6 Volvo Company to which we are loaning the part.

05 References to other documents

IDDOK X8 References to other Documents (P/N)

06 Free Text

KDXTTYP X1 * Type of Free Text
BEFTEXT X60 * Free text

07 Spare Parts Information.

IDRESREF X8 * Reference for Spare Parts (P/N)
KDRESDEL X1 * Spare Parts Code
FLRKPL N1 * Flag for Spare Parts Assembly

08 Subscription Aperature Cards

IDAVDNR N5 * Department Identity (subscriber)
KVBILDAB N2 * Quantity of apereture cards subscribed to
TIUPDDAT N8 * Date for last changed subscription

09 Borrowed original drawings

IDAVDNR N5 * Department Identity borrowing the drawing original.
BELAAN X15 * Name of the person borrowing the dwng, original
ADTEL X15 * Phone number to the person borrowing the Original.
TILAAAN N8 * Date when the Original Drawing was borrowed.

10 Release and Termination Date related to parent P/N (Variant)

TIFRISL N8 Date when parent part was released
TIUTG N8 Date when parent part was terminated
KDSPTYP X2 Specification Type
IDSPEC X11 Reference to the KV-spec containing the part.
The two last data elements are keys to EA67.

11 Release and Termination Date per Plant

KDFKOD N2 Plant code for affected Variant
TIFRISL N8 Date for release of Variant to affected plant
TIUTG N8 Date for termination of Variant at affected plant

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12 Assembly Line Info

KDBANA X1 Code for a certain line at the plant concerned.
BEFTEXT X60 Free text for explanations.

14 Pointer segment for Low Level Code

IDARTNR X8 Part Number

15 ECNs which have affected or will affect the P/N

IDEONR N5 ECN Identity (type B)

20 ASK-Codes and shape properties (not part of PROST)

21 Std Cost Info (not part of PROST)

22 Prices info (not part of PROST)

23 Assembly Administration File (not part of PROST)

24 Assembly Administration File (not part of PROST)

25 Info about the Recommendation Grade per Origin Code

KDKANSV X1 * Responsibility for the P/N and privilege to change
KDREK N1 * Recommendation grade
TIREKDAT N8 * Date until the "latch" is lifted

27 Superseded by new P/N

IDARTNR X8 * The new P/N which supersedes the former P/N (Root Key, one to one)

28 Supersedes old P/N

IDARTNR X8 * The old Part Numbers which are superseded by the new P/N (Root Key, one to many).

29 Info about Material and Surface Treatment

KDMTRL X13 * Material designation
BEYTBH X30 * Designation for Surface Treatment

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2. Definition of Data Elements and Codes allowed

Part Number (IDARTNR)

Part Number in PROST is defined as A/N but number series allowed are only numeric. It should always be stated right oriented. It may sometimes be presented as zero-filled and sometimes with leading blanks.

Part Numbers is by definition used for

- Products, Components and Options within VCE
- All parts used in these VCE products, components and options.
- Blanks, castings and forgings
- Identification of parts in various stages between blank and finished part in manufacturing.
- Drawings of any form defining the product or part of this.
- Part lists where necessary (not used in PROST)
- Tools for manufacturing of parts.
- Tools for the assembling of Products
- Tools for service sold through Parts.
- Other items used in manufacturing

Not all these usages are utilized by all VCE companies.

Part Descriptions (BESV, BESVKORT, BENAMUTL, FORKUTL)

There are four Part Descriptions in EA60:

- BESV 25 char Swedish description
- BESVKORT 15 char Swedish description
- BENAMUTL 25 char English description
- FORKUTL 15 char English description

Part descriptions are mandatory information for all P/N in EA60.

In Swedish transactions for assigning P/N, the chosen Swedish Part Description must exist as Part Name in NAMNLEX. Both Swedish and English descriptions are updated i EA60.

In English transactions for assigning P/N, the chosen English Part Description must exist as Part Name in NAMNLEX. Both English and Swedish descriptions will be updated in EA60.

In both cases there are some complicated rules that apply which will not be explained here. See PROST Instructions UPRA-7 and UPSA-7.

It is possible in most cases to **use** NAMNLEX for translation of Part Descriptions to other

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languages. Such translation is **not provided** by PROST other than in some cases.

Homonym Code (KDHOM) is used to distinguish between several possible translations available in NAMNLEX from a Swedish Part Name to an adequate English Part Name.

Article Type (KDARTYP)

The following Article Types are used:

- **D** Detail part
- **DOK** Document (no physical part)
- **F** Transportation part
- **K** Assembly (consists of two or more parts), Variant on KV-Specs.
- **P** Product-Id (End-Product, Option, Equipment, Attachment etc)
- **R** Spare Parts Assembly, Variant on RV-Specs.
- **S** Single part which consists of blank or raw material, Variant on SV-Specs.
- **T** Additives
- **X** Experimental part (not used)
- **Ä** Blank (# on American and German terminals)

Some of the codes are automatically updated and others are manual and mandatory.

Standard registration Number (IDSTDRE1, IDSTDRE2)

The Std Registration Number is divided in two parts with a comma as divider.

The number signifies Standards issued by Volvo, IND or INA and refers to the Std Sheet on which the part will be defined and described.

Unit of measure, U/M (BESORT)

The following Units Of Measures are used and allowed in PROST.

- **ST** Item part (styck)
- **MM** Millimeter for lengths of parts
- **KVCM** Square centimeter for surfaces of parts
- **ML** Milliliter for volumes of parts
- **L** Liter for volumes where ML is not adequate
- **GR** Gram for weights of parts
- **PD** used for fractions of blank plates in Sweden (IND): **Plate Divisor**

'PD' is mainly used for blank plates in order to get mechanized material requirements:
1 ITEM = 10.000 PD If there is a quantity of '19 PD' stated in the Spec, this means that
 $10.000 / 19 = 526$ parts can be made from the blank specified.

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Please notice that **quantity** in the article structures are stated as **integers** with a **maximum of 5 digits**.

Department Identity (IDAVDNR, IDINIT)

The formal format is 4 digit number in the data base for IDAVDNR . For each IDAVDNR there is a 6 A/N characters designation (BEAVD) in EA61 which is what is shown and updated.

IDINIT is used to show which department has assigned the P/N and is a 5 digit A/N field. The practical usage of the fields BEAVD and IDINIT should be:

XXXXX



Internal Department Designation (4 or 5 digits)

Letter, designating a VCE Company or group of VCE Companies having a common set of Department Designations.

The first position in the field should therefor be

- **A** for Euclid-Hitachi Inc. (INA, PNA, GUE, SST)
- **B** for Volvo BM's obsolete departments
- **C** for VCE Brazil Equipamentos Ltda
- **D** for Volvo Articulated Haulers AB
- **E** for Volvo Excavators AB (Åkermans and their plants)
- **F** for Zettelmeyer Baumaschinen GmbH
- **G** for Groupe Pel-Job/Mecalac
- **I** for Volvo Wheel Loaders AB
- **R** for VCE Parts
- **Z** for Colliding, renumbered P/N

The rest of the field should be used for the internal Department Designation. If shorter than 5 characters, it should be left oriented and have no zero-filling.

An example:

- **ADOC** applies to ENGDOC at INA in Cleveland
- **FTKK** applies to Product Engineering at Zettelmeyer.
- etc.

Normally a department should be stated, however, within VCE Holding Sweden AB an internal "Mail Address" may be stated if the size of the field allows.

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Dates (TIUTG, TIREGDAT, TIUPPDAT, TILAA, TIFRISL, TIREKDAT)

The date format in PROST is and has always been the same:

19991231 in the Data Bases, signifying

Year 1999

Month December

Day 31

Engineering Approved Source, EAS (FLIFBH)

When Engineering has found a vendor part which they want to recommend for purchase to prevent purchase of similar parts from any other vendor, an EAS document is raised and FLIFBH is updated with "YES" (one digit in the data base).

Parts Borrowed by Volvo Companies or Parts Loaned from a Volvo Company (BEKONENH).

When borrowing parts from Volvo or loaning parts to Volvo the **two fields** are used.

Two Volvo Companies are currently used:

- **VLV** Volvo Trucks in Gothenburg
- **VPV** Volvo Cars in Gothenburg

Free Texts

There are several types of free texts used for different purposes:

Type Usage

- **A** **Free text per P/N** can be updated by anybody who has the transactions for assigning new P/N and changing data for existing P/N (UPRAB, UPSAB, UPRAC, etc)
- **B** **Free text for Rec-Grade** which can be updated by the transaction UPRAO for **KDKANSV=A (INA)**
- **C** **Free text for Rec-Grade** which can be updated by the transaction UPRAO for **KDKANSV=B (IND, ART, BRS)**. Will be changed to **KDKANSV = I (IND)**.
- **K** **Free text for drawing** which can be updated by transaction UPRA? and which is related to the drawing.
- **I** **"Free Text" used for "Bin Location"**, 4 first char.

The free text type B and C and future free text types for other VCE Companies' (KDKANSV) Recommendation Grades will be moved to different segments below segment 25 summer 1993.

Legal Requirements Code (KDLAGKR).

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It is possible to update a tag for each P/N in PROST showing possible legal requirements applicable to the part at hand :

Code Description

- **L** Legal requirements applies
- **S** Security part
- **D** Documentation bound part

Each code is related to what changes may be done to the part without any legal implications.

Drawing Info (KDRITST, IDUTG, KDRITFOR, KDORIGST, IDRITNR).

A part used in any of VCE's Products, Options equipment Attachments etc has to have some kind of drawing and this should be registered in PROST.

- The part is drawn on a drawing with the same number as the part. The drawing will be updated with Drawing Size (KDRITFOR) and Validity (KDRITST) and Issue (IDUTG).
 - Validity is either **U** or **P**
 - Issue is a running sequential number between 01 and 99.
 - Drawing sizes are **A4, A3, A2, A1, A0, T** for European sizes in the DIN A-series. **A, B, C, D, E and R** for American sizes
- The part is drawn on a drawing with a different drawing Number (P/N) than the parts P/N. There will be updated a reference from the P/N to the drawing number (IDRITNR).
- The part is a Standard Part and will have a reference to a Standard Registration Number (IDSTDRE1 and IDSTDRE2).

Only Spare parts and parts used in Manufacturing (outside the products) may have part number assigned without updating drawing info.

In order to keep track of in what shape the original of the drawing is, there is a code in PROST which may be updated with any of the following codes (KDORIGST):

- **1** Drawing is not yet in the archive (not yet released)
- **2** Drawing original is in the archive but there is no apereture card
- **3** Drawing Original is in the archive and there is also an apereture card existing
- **4** The Drawing Original is filed in a **CAD** system and apereture card exists
- **5** No Drawing Original exists, only on apereture card.
- **6** No Drawing Original and no apereture card exists
- **7** Not drawn
- **Blank** Not updated or assumed same as code 3 (as default)

The codes are updated when the drawing is being released through Engineering Service (ULK, KDA, ENGD0C etc).

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Archive location (BEPLATS)

This field is used for information about which location is used to archive the drawing.
Abbreviation for the location or department code is used.

Bin Location

See Free texts.

Low Level Code (LLC)

LLC is used to tell which P/N are found at the bottom of the Article Structure and is used to detect whether a part is used in itself indirectly.

Born by and Died by (IDFOEDD, IDDOED)

These two data elements are automatically updated through the release and termination functions.

- IDFOEDD is updated with the Variant P/N in which the part is used when this is being released and IDFOEDD is blank or
- IDFOEDD is updated with the ECN Number which brings the P/N into an Article Structure for the first time (IDFOEDD is blank before the release).
- IDDOED is updated when the part is deleted by an ECN from the last Article Structure in PROST (ECN number is updated) or
- the last Variant which contains the part is being terminated : IDDOED will be updated with the Variant P/N.

Origin of a Part

Origin is used to indicate where the part has come from or where it has been designed.

Valid Origins

Company name	EA60	EF60	Abbr.
• Euclid Hitachi Heavy Equipment Corp	A	EA	EHH
• Volvo BM AB *)	B	EB	VBM
• Volvo Wheel Loaders AB	I	EI	WLO
• Volvo Equipamentos de Construção Ltda	C	EC	BRB
• Volvo Articulated Haulers AB	D	ED	ART
• Volvo Excavators AB	E	EE	EXC
• Zetelmeyer Baumascinen GmbH	F	EF	ZET
• Groupe Pel-Job/Mecalac	G	EG	PEL
• VCE Parts AB	R	ER	PAR
• Colliding, renumbered P/N	Z	EZ	COLL

EA60 Designation for the VCE current Article Data Base.

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EF60: Designation for the VCE Global Article Data Base in DB2 technique.

Abbr.: Commonly used abbreviations i various documentation.

During fall 1993 PROST was converted from Origin "**B**" to:

- **I** (resp **EI**) for Volvo Wheel Loaders AB
- **C** (resp **EC**) for Volvo Equipamentos de Construção Ltda
- **D** (resp **ED**) for Volvo Articulated Haulers AB etc.

after which Origin B is only used for parts belonging to products which do not belong to any current VCE Product Company, i.e. no current VCE Company has any responsibility for these (i e purely historical records)

Mass.

Mass is updated in EF60 only. Does not exist in EA60.

The **Mass Value** field is 8 digits with 3 decimals and the U/M used in the database is Kilogram. Presentation of Mass may be in Kg or lb.

The **Methods** for how to determine mass is one A/N character:

- **E** Roughly estimated Mass
- **C** Carefully calculated Mass
- **W** Weighed mass of a single part
- **A** Average mass for several weighed parts.

Class.

Class is a 4 digit code used to classify parts by usage, gasket, valve, hose, pipe, bracket etc. Class is a function introduced and used by Volvo Excavators only. For each Class there is a Class Description of 70 char and a Language Code (2 char, same as i NAMNLEX).

Designation.

Designation was introduced by Volvo Excavators and Zettelmeyer and is only used by them. Designation may be a vendor code or P/N or a type designation used on a vendor part or a performance or property figure updated by the design engineer. Designation is 35 char.

Dimension.

Dimension is used where VCE have such data available, mostly transferred from CARTREG. Dimension is a 35 char field.

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Article Cross Index System (ACRIS).

This is a complete system in it own right handling the cross reference between the Part number of an External company and the equivalent VCE/Volvo Part Number. There are 10 tables in theEF60 database which are directly related to ACRIS:

- EXTERNAL_COMPANY
- VENDOR_REFERENCE
- COMPANY_NAME_HISTO
- TEXT_COMPANY
- COUNTRY
- VENDOR_TYPE
- EXTERNAL_COMPANY_TYPE
- PN_CROSS_INDEX
- TEXT_CROSS_INDEX
- OLD_PN_CROSS_INDEX

Cross references:

- **ORIGIN_ARTICLE** defines the VCE P/N in a 12 digit format (see VCE-Standard 9123,15).
- **EXTERNAL_PN** defines the External P/N with maximum 30 digits A/N (numbers or other characters) with suffixes or prefixes as defined by the External Company.
- **TEXT_CROSS_INDEX** may be used when necessary to inform users about certain properties or conditions related to the P/N. The field is tree times 65 char and may be updated by anyone assigned the transaction UACRH.
- **SUPERSEDED_BY_EXT_PN** may be used when the vendor or the customer changes their P/N on the part but VCE wants to keep the VCE ORIGIN_ARTICLE for the part (no physical change has been done) The new External P/N should be updated for the VCE ORIGIN_ARTICLE and the and the former EXTERNAL_PN should be updated as SUPERSEDED_BY_EXT_PN = the new External P/N.

Data about the External Company:

- **EXTERNAL_COMPANY_CODE** is an identity for an External Company which **should not be confused with any vendor**. EXTERNAL_COMPANY_CODE is an 8 digit code which the user will not have to remember or refer to very often. The number is assigned by the system when new External Companies are updated..
- **COMPANY_NAME** is the name of the External Company written with letters. COMPANY_NAME is also existing as "COMPANY_NAME_HIST" when the External Company has changed name
- **EXT_COMPANY_TYPE_CODE** is a 1 char code describing the type of External Company with the following meaning:
 - **V** Vendor
 - **C** Customer (not a customer to our end products)
 - **F** Franchise company for which VCE for instance is selling spare parts for.
 - **D** Dealer (VCE) who have assigned own P/N to something he manufactures himself or manufacture locally..
 - **Z** Company Code used for colliding P/N renumbered to something else.
 - **O** Other

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- **VENDOR_TYPE_CODE** is a 1 char code describing which type Vendor the External Company is with the following meaning: EXT_COMPANY_TYPE_CODE must be "V" or this code should be blank..
 - **M** Manufacturer (the External Company is the manufacturing company within a group of companies)
 - **D** Distributor/Agent
 - **W** Warehouse/wholesale
 - **L** Local vendor
 - **O** Other

- **COUNTRY_CODE** is a code describing which country the External Company is located in according ISO Standard 3166. The country names are in **English** and they are updated against this code. All countries are not updated and this table may have to be supplemented as time goes by. Country code is mandatory in ACRIS.
- **CITY** describes in which city or name of other geographical location the External Company is located. City is mandatory data in ACRIS..
- **STATE_REGION** is used for State in USA and other big countries like CANADA and BRAZIL. The information is not mandatory in ACRIS..
- **POSTAL ADDRESS** consists of **CITY + ZIP CODE**. Not all countries have any ZIP code system and some countries have a different system with letters and numbers.
- **STREET_ADDRESS** is normally the street name and building number/entrance number where the External company is located.
- **P_O_BOX** is the mailing address: Post Box, PO Box, Postfach, Boite Postale etc.
- **PHONE, TELEX and FAX** are the general phone number , fax number etc. used officially. Numbers used by single persons within the company should be avoided..
- **TEXT_COMPANY** used for additional information about the External Company. Max. three times 65 char.
- **VENDOR_CODE** and **VENDOR_ORIGIN_CODE** refers to a "local" vendor code (VENDOR_CODE) used one or more VCE companies (VENDOR_ORIGIN_CODE). Since ACRIS is common for all VMS is it not possible to use a local vendor code as a code for the External Companies. Also, ACRIS contains other than vendor parts.
- **OLD_EXTERNAL_COMP_CODE** is used to record historical External Company names in cases of joint venture, purchases and other forms for takeovers etc.

All data should always be as complete as possible and should be followed up continuously with corrections as soon as data changes..

Standard Cost.

The EF60 data base also contains data about costs. This info will be reworked within no to long and I choose not to display any data about this here.

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Product Groups used at VCE

- 31 WHEEL LOADERS, VOLVO BM
- 32 ARTICULATED HAULERS, VOLVO BM
- 33 MOTOR GRADERS, VOLVO BM (obsolete)
- 34 EXCAVATOR LOADERS, VOLVO BM
- 35 HAULERS, VOLVO BM (Landskrona, obsolete)
- 36 WHEEL LOADERS/DOZERS MICHIGAN.
- 37 HAULERS, EUCLID HITACHI
- 38 TRACTORS, VOLVO BM (obsolete)
- 41 WHEEL LOADERS DOMESTIC, BRAZIL
- 42 ARTICULATED HAULERS DOMESTIC, BRAZIL
- 44 EXCAVATORS, ÅKERMAN
-
- 62 ENGINES, WLO (obsolete)
- 72 TRANSMISSIONS/GEARBOXES, WLO
- 76 AXLES, WLO
- 80 ENGINES, VCE PARTS
- 81 TRANSMISSIONS/GEARBOXES, VCE PARTS
- 82 AXLES, VCE PARTS
- 90 SUBCONTRACTOR PRODUCTS

EQUIPMENT FAMILIES

- 00 (USED IN THE MAIN-SYSTEM)
- 01 SHIPMENT AND DELIVERY EQUIPMENT
- 02 INSP. AND MAINTENANCE EQUIPMENT
- 03 PLATES AND STICKERS
- 04 ENGINE EQUIPMENT
- 05 ELECTRICAL EQUIPMENT
- 06 TRANSMISSION EQUIPMENT
- 07 TIRE AND RIM EQUIPMENT
- 08 CAB EQUIPMENT
- 09 HYDRAULIC EQUIPMENT
- 10 EXTERIOR EQUIPMENT
- 11 PROTECTION EQUIPMENT
- 12 DUMPER BODY EQUIPMENT
- 13 OTHER EQUIPMENT
- 14 DIFFERENTIALS/PLANETARY GEARS
- 15 ELECTRIC DRIVE EQUIPMENT
- 16 TRACK EQUIPMENT
- 17 DIGGING EQUIPMENT
- 18 HYDRAULIC EQUIPMENT for SLOPE BUCKET/ROTATOR EQPT
- 19 HYDRAULIC EQUIPMENT for HAMMER/SHEARS/GRAB EQPT
- 20 HYDRAULIC EQUIPMENT for HYDRAULIC QUICK FIT EQPT
- 21 HYDRAULIC EQUIPMENT for HOSE RUPTURE VALVE EQPT

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- 22 BRAKE EQUIPMENT
- 23 STEERING EQUIPMENT
- 24 FRAME EQUIPMENT
- 25 LOADER LINKAGE EQUIPMENT
-
- 50 ATTACHMENT BRACKETS
- (51 BUCKETS FOR LOADING UNITS (use 60-64 instead))
- 52 BUCKETS FOR EXCAVATOR UNITS
- 53 LOGGING ACCESSORIES
- 54 FORK ATTACHMENTS
- 55 BLADES
- 56 RIPPERS AND CABLE LAYERS
- 57 OTHER ATTACHMENTS
- 59 BUCKET ACCESSORIES
- 60 GENERAL PURPOSE BUCKETS
- 61 ROCK BUCKETS
- 62 LIGHT MTRL- & GRADING BUCKETS
- 63 HI-TIP BUCKETS
- 64 INCOMPLETE BUCKETS
-
- 99 VARIANT MARGINS

Plant codes.

- 01 ESK (ESKILSTUNA)
- 02 HYMA (HYMAS)
- 03 BRA (BRAÅS) 79 OSH (OSHKOSH)
- 04 BL (BR. LUNDBERG)
- 05 ARV (ARVIKA)
- 07 HAL (HALLSBERG)
- 08 LAN (LANDSKRONA)
- 18 INK (PURCHASING IND)
- 24 PAR (VCE PARTS SWEDEN)
- 40 F&U (ENGINEERING WLO)
- 60 SIN (SINGAPORE)
- 61 SAC (SOUTH AFRICA) Bumar-Labedy
- 62 AUS (AUSTRALIA)
- 63 SPA (SPAIN) Rockwell Auto motive US
- 64 TUR (TURKEY)
- 65 IRA (IRAN)
- 66 GRB (GREAT BRITAIN)
- 71 ASH (ASHEVILLE)
- 72 PED (PEDERNERIAS)
- 73 GUE (GUELPH)
- 74 BRU (BRUGGE)
- 75 STT (ST THOMAS)
- 76 KON (ZETTELMAYER, KONZ)
- 77 ESL (VOLVO EXCAVATORS, ESLÖV)
- 78 POL (POLAND)

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Spare Parts Codes.

- **A :** STOCKED IN SPARE KITS ONLY
- **C :** REMANUFACTURED PART (EX. RECONDITIONED ENGINE)
- **D :** REPLACED BY SPECIAL SPARE PART EXECUTION (SEE TRANSACTION UPSAA)
- **E :** REPLACED BY OTHER PART AS SPARE PART
- **L :** SPARE ASSY WHERE EVEN SOME OF THE LOW LEVEL PARTS ARE SPARE PARTS
- **N :** PARTS PREPARATION MADE BY ENGINEERING AT VCE EXCAVATORS
- **P :** PASSIVE SPARE PART (REQUEST FOR PRICE AND DELIVERY TIME NECESSARY)
- **R :** SPARE PART
- **T :** ASSEMBLY WHERE ONLY LOW LEVEL PARTS ARE SPARE PARTS
- **U :** OBSOLETE SPARE PART, DELETED WITHOUT REPLACEMENT
- **W :** SPARE PART CODE WAS NOT AVAILABLE AT SYSTEMS INSTALLATION (1982).
- **X :** NOT USED AS SPARE PART

Variant types

- **PV :** PRODUCT VARIANT WILL HAVE A PRODUCT NUMBER (PART NO) ACCORDING TO VCE'S ACCOUNTING PLAN AND WILL FOLLOW THE SPECIAL RULES FOR SUCH.
- **UV :** EQUIPMENT VARIANT A COLLECTIVE EXPRESSION FOR EQUIPMENT, ATTACHMENTS AND ACCESSORIES (OPTIONS) THAT CAN BE MOUNTED ON ONE OR MORE OF THE PRODUCT VARIANTS.

Restriction Types in PI/TA (Product Identities and Technical Authorization)

- **L :** LEGAL REQUIREMENTS EXIST FOR ONE OR MORE MARKETS
- **TF :** TECHNICAL RESTRICTION. CAN NOT BE COMBINED WITH OTHER EQUIPMENT.
- **TK :** TECHNICAL COMBINATION REQUIREMENT. MUST BE COMBINED WITH OTHER EQUIPMENT VARIANT/-S
- **TM :** TECHNICAL REQUIREMENT REGARDING OPERATIONAL ENVIRONMENT (ENVIRONMENT, CLIMATE OR TOPOGRAPHY)

Actuality Codes in PI/TA.

- **BLA(NK)** THE VARIANT IS NOT YET RELEASED
- **S :** THE VARIANT IS RELEASED FOR MRS-PREPARATIONS, SALES FORECASTS AND PRODUCT PLANNING
- **X :** THE VARIANT IS NO LONGER IN CURRENT PRODUCTION. THE VARIANT MAY STILL BE AVAILABLE FOR DELIVERY
- **A :** THE VARIANT IS TERMINATED IN PI/TA AND MOVED TO THE HISTORY

Status Codes in PI/TA.

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- **M :** THE VARIANT'S ARTICLE STRUCTURE IS TERMINATED IN PROST-P, BUT NOT IN PROST-U
- **N :** THE VARIANT'S ARTICLE STRUCTURE IS TERMINATED IN PROST-U, BUT NOT IN PROST-P
- **O :** THE VARIANT'S ARTICLE STRUCTURE IS TERMINATED IN BOTH PROST-U & P
- **P :** THE VARIANT HAS OFFICIAL ARTICLE STRUCTURES IN BOTH PROST-U AND PROST-P.
- **U :** THE VARIANT DOES NOT HAVE ANY OFFICIAL ARTICLE STRUCTURES. STRUCTURES UNDER WORK MAY EXIST
- **Z :** THE VARIANT HAS NEVER HAD ANY ARTICLE STRUCTURES IN PROST.

Degrees of Urgency (used on ECNs)

- **1A:** IMMEDIATELY INCLUDING ALL DELIVERED VARIANTS TO END-CUSTOMER
- **1B:** IMMEDIATELY EXCEPT TO CUSTOMER DELIVERED VARIANTS
- **2 :** AS SOON AS POSSIBLE
- **3 :** AT THE ECONOMICAL OPTIMAL POINT OF TIME

SPEC-Types

- **HV :** MAIN VARIANT SPECIFICATION (TOP LEVEL)
- **KV :** ASSEMBLY VARIANT SPECIFICATION
- **RV :** SPARE PART VARIANT SPECIFICATION
- **SV :** SINGEL VARIANT SPECIFICATION (CONTAINS BLANK ONLY)

Language Codes.

- **ES :** SPANISH (ES)
- **FR :** FRENCH (FR)
- **GB :** ENGLISH (EN)
- **IT :** ITALIAN (IT)
- **NL :** DUTCH (NL)
- **PT :** PORTUGUESE (PT)
- **SE :** SWEDISH (SV)
- **TY :** GERMAN (DE)

(Codes within brackets are according to ISO 639 which should be preferred to the PROST codes).