

## Spare Parts Catalogue

---

|             |                      |
|-------------|----------------------|
| Engine type | <b>S/BV12,16M640</b> |
|-------------|----------------------|

---

## **© Copyright by Wärtsilä Netherlands B.V.**

All rights reserved. No part of this booklet may be reproduced or copied in any form or by any means (electronic, mechanical, graphic, photocopying, recording, taping or other information retrieval systems) without the prior written permission of the copyright owner.

This publication is designed to provide as accurate and authoritative information in regard to the subject-matter covered as was available at the time of writing. However, the publication deals with complicated technical matters suited only for specialists in the area, and the design of the subject-products is subject to regular improvements, modifications and changes. Consequently, the publisher and copyright owner of this publication can not accept any responsibility or liability for any eventual errors or omissions in this booklet or for discrepancies arising from the features of any actual item in the respective product being different from those shown in this publication. The publisher and copyright holder shall under no circumstances be held liable for any financial or other loss, or any other damage or injury, suffered by any party making use of this publication or the information contained herein.

# Introduction

The Spare Parts Catalogue provides the necessary information for ordering parts.

## Arrangement of Catalogue

The Spare Parts Catalogue is composed of:

- Drawings (Bild-Tafel) with item numbers (Fig. No)
- Parts lists showing the item number (Fig. No), part number, denomination and quantity per (sub-) assembly of each part.

## Ordering Parts

When ordering parts please include the following information:

### Installation Data:

- Engine Number (see name plate of the engine)
- Engine Type
- Name of ship or Installation

### Parts Data:

- Part Number and Description
- Number of Illustration (Bild-Tafel)
- Serial (unique) Number of the Part (if available)
- Quantity of required parts

### Shipment Data:

- Invoicing Address
- Forwarding Address
- Type of Shipment

The supply of spares is subject to our General Terms and Conditions for the sales of Spare Parts.

## Ordering Address

The parts required should be ordered direct from Wärtsilä Netherlands B.V. or from one of the service stations, workshops and ship repair centres that form our service network in 60 countries worldwide.

Wärtsilä Netherlands B.V.  
P.O. Box 10608, 8000 GB Zwolle  
Office: Hanzelaan 95, 8017 JE Zwolle  
The Netherlands  
Tel. +31 38 425 32 53 (24 hrs)  
Fax +31 38 422 35 64  
service.sales.nl@wartsila.com



**Equipment:** DEUTZ **Engine type** S/BV12,16M640

| <b>CG</b> | <b>ETL-No.</b> | <b>Designation</b>   |
|-----------|----------------|----------------------|
| <b>1</b>  |                | <b>Crankcase</b>     |
| 1         | 05014443       | Relief valve         |
| 1         | 05017730       | Relief valve         |
| 1         | 05060827       | Crankcase parts      |
| <b>2</b>  |                | <b>Oil pan</b>       |
| 2         | 05021941       | Oil pan              |
| <b>5</b>  |                | <b>Crankshaft</b>    |
| 5         | 05026442       | Tdc-pointer          |
| 5         | 05033573       | Flywheel             |
| <b>7</b>  |                | <b>Piston</b>        |
| 7         | 05038171       | Piston               |
| 7         | 05038172       | Set of pist. rings   |
| <b>8</b>  |                | <b>Cylinder head</b> |
| 8         | 05021939       | Stop slide valve     |
| 8         | 05028601       | Driver/actuator      |
| 8         | 05038173       | Inlet valve          |
| 8         | 05038175       | Valve mechan. cas.   |
| 8         | 05060584       | Cylinder head        |
| 8         | 05062885       | Freewheel assy.      |
| 8         | 05062910       | Pipeline             |
| <b>9</b>  |                | <b>Timing chest</b>  |
| 9         | 05026566       | Breather             |
| 9         | 05033575       | Accessories          |
| 9         | 05062204       | Auxiliary drive      |
| 9         | 05062836       | Gear train           |
| 9         | 05062853       | Gear train           |
| <b>10</b> |                | <b>Camshaft</b>      |
| 10        | 05017972       | Camshaft locator     |
| 10        | 05020617       | Camshaft locator     |
| 10        | 05026356       | Limit switch         |
| 10        | 05060707       | Camshaft             |
| 10        | 05060709       | Camshaft             |
| 10        | 05062801       | Camshaft assy        |
| <b>11</b> |                | <b>Timing gears</b>  |
| 11        | 05060726       | Valve drive          |
| <b>14</b> |                | <b>Lube oil pump</b> |
| 14        | 05017990       | Oil pump assy        |
| 14        | 05018017       | Lubricat. oil pump   |
| 14        | 05026446       | Safety valve         |
| 14        | 05060617       | Valve seat lubric.   |

**Equipment:** DEUTZ **Engine type** S/BV12,16M640

| <b>CG</b> | <b>ETL-No.</b> | <b>Designation</b>          |
|-----------|----------------|-----------------------------|
| <b>15</b> |                | <b>Oil filter/-cooler</b>   |
| 15        | 05021945       | Oil filter assy             |
| 15        | 05061565       | Lubric. oil filter          |
| 15        | 05065362       | Lubric.oil filter           |
| <b>16</b> |                | <b>Oil pipes</b>            |
| 16        | 05020625       | Lubricat. oil line          |
| 16        | 05023154       | Lubricat. oil line          |
| 16        | 05023286       | Lubricat. oil line          |
| 16        | 05024434       | Lubricat. oil line          |
| 16        | 05024560       | Lubricat. oil line          |
| 16        | 05030506       | Pressurestat                |
| 16        | 05062355       | Lubricat. oil line          |
| 16        | 05062846       | Lubricat. oil line          |
| 16        | 05062929       | Lubricat. oil line          |
| 16        | 05062959       | Lubricat. oil line          |
| <b>17</b> |                | <b>Injection pump</b>       |
| 17        | 05060766       | Retainer                    |
| 17        | 05060768       | Pump drive                  |
| 17        | 05060771       | Fastenings                  |
| 17        | 05062955       | Fuel inject. pump           |
| <b>18</b> |                | <b>Injection pump drive</b> |
| <b>19</b> |                | <b>Injector</b>             |
| 19        | 05061384       | Fuel injector               |
| <b>20</b> |                | <b>Fuel filter</b>          |
| 20        | 05038678       | Drain valve                 |
| 20        | 05060431       | Fuel filter assy            |
| 20        | 05060979       | Fuel duplex filter          |
| <b>21</b> |                | <b>Fuel pipes/fuel tank</b> |
| 21        | 05028753       | Coolant pipe                |
| 21        | 05060947       | Bracket                     |
| 21        | 05061719       | Fuel line                   |
| 21        | 05062280       | High pressure pipe          |
| 21        | 05062294       | Fastenings                  |
| 21        | 05062855       | Coolant pipe                |
| 21        | 05062859       | Fuel line                   |
| 21        | 05062862       | Leak off line               |
| 21        | 05062863       | Leak off line               |
| 21        | 05062870       | Bracket                     |
| 21        | 05062936       | Coolant pipe                |
| 21        | 05062937       | Fuel line                   |
| 21        | 05062940       | Leak off manifold           |
| 21        | 05062949       | Pipeline                    |

**Equipment:** DEUTZ **Engine type** S/BV12,16M640

| <b>CG</b> | <b>ETL-No.</b> | <b>Designation</b>         |
|-----------|----------------|----------------------------|
| <b>27</b> |                | <b>Speed control</b>       |
| 27        | 05018085       | Booster/servo unit         |
| 27        | 05018087       | Booster/servo unit         |
| 27        | 05023176       | Pipeline                   |
| 27        | 05025776       | Accessories                |
| 27        | 05032053       | Speed governor             |
| 27        | 05062341       | Switch assy                |
| <b>29</b> |                | <b>Control linkage</b>     |
| 29        | 05018104       | Guard plate                |
| 29        | 05023190       | Flanged bearing            |
| 29        | 05060680       | Linkage                    |
| 29        | 05060717       | Control rod                |
| 29        | 05060719       | Control rod                |
| 29        | 05061312       | Linkage                    |
| 29        | 05062401       | Adjusting rod              |
| 29        | 05062407       | Spring support             |
| <b>30</b> |                | <b>Airstarting control</b> |
| 30        | 05024813       | Start air distrib.         |
| <b>31</b> |                | <b>Starting valve</b>      |
| 31        | 05060221       | Socket wrench              |
| 31        | 05060348       | Starting air valve         |
| 31        | 05061385       | Indicator valve            |
| 31        | 05061388       | Safety valve               |
| 31        | 05061871       | Bracket                    |
| <b>32</b> |                | <b>Starting system</b>     |
| 32        | 05017397       | Start master valve         |
| 32        | 05017404       | Relief valve               |
| 32        | 05021786       | Air filter                 |
| 32        | 05023111       | Safety system/dev.         |
| 32        | 05024564       | Start master valve         |
| 32        | 05024656       | Panel                      |
| 32        | 05026292       | Quick-exhaust valv         |
| 32        | 05033640       | Safety valve               |
| 32        | 05038210       | Valve plate                |
| 32        | 05038334A      | Air-operated contr         |
| 32        | 05061845       | Start air pipe             |
| 32        | 05062927       | Pilot line                 |
| 32        | 05062967       | Pilot line                 |
| <b>34</b> |                | <b>Vibration damper</b>    |
| 34        | 05017861       | Vibration damper           |
| 34        | 05038542       | Auxiliary drive            |

**Equipment:** DEUTZ **Engine type** S/BV12,16M640

| <b>CG</b> | <b>ETL-No.</b> | <b>Designation</b>        |
|-----------|----------------|---------------------------|
| <b>35</b> |                | <b>Control console</b>    |
| 35        | 05021826       | Valve                     |
| 35        | 05025803       | Three-way valve           |
| 35        | 05026174       | Non-return valve          |
| 35        | 05026228       | Air cleaner               |
| 35        | 05026283       | Press.reduc.valve         |
| <b>37</b> |                | <b>Cooling water pump</b> |
| 37        | 05030758       | Blanking parts            |
| <b>38</b> |                | <b>Water pipes</b>        |
| 38        | 05025884       | Cooling water line        |
| 38        | 05060992       | Cooling water line        |
| 38        | 05061969       | Cooling water line        |
| 38        | 05061970       | Cooling water line        |
| 38        | 05062350       | Accessories               |
| 38        | 05062351       | Cooling water line        |
| 38        | 05062932       | Cooling water line        |
| 38        | 05066105       | Pipe union                |
| <b>41</b> |                | <b>Exhaust manifold</b>   |
| 41        | 05021777       | Compensator               |
| 41        | 05024814       | Sheeting/panelling        |
| 41        | 05038297       | Cover plate               |
| 41        | 05060682       | Exhaust branch            |
| 41        | 05060874       | Exhaust pipe              |
| 41        | 05060877       | Exhaust pipe              |
| 41        | 05061376       | Exhaust manifold          |
| 41        | 05062912       | Sheeting/panelling        |
| 41        | 05062915       | Cover plate               |
| 41        | 05062923       | Temp.monitor.unit         |
| 41        | 05065361       | Sheeting/panelling        |
| <b>43</b> |                | <b>Turbocharger</b>       |
| 43        | 05020445       | Cleaning device           |
| 43        | 05025900       | Scavenging jet            |
| 43        | 05025968       | Extension                 |
| 43        | 05029574       | Drain cock                |
| 43        | 05061378       | Turbocharger assy         |
| 43        | 05061379       | Cleaning device           |

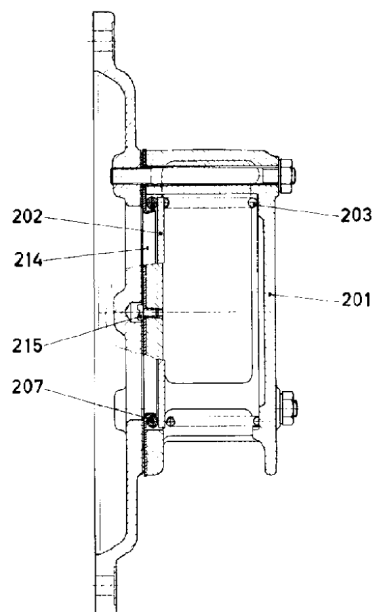


**Equipment:** DEUTZ **Engine type** S/BV12,16M640

| <b>CG</b> | <b>ETL-No.</b> | <b>Designation</b>            |
|-----------|----------------|-------------------------------|
| <b>48</b> |                | <b>Electrical accessories</b> |
| 48        | 05024440       | Blanking parts                |
| 48        | 05025823       | Shuttle control               |
| 48        | 05026479       | Oil mist monitor              |
| 48        | 05032787       | Electr.installat.             |
| 48        | 05033878       | Warning unit                  |
| 48        | 05038150       | Pressure switch               |
| 48        | 05038201       | Float switch                  |
| 48        | 05060425       | Temp.monitor.unit             |
| 48        | 05061211       | Warning unit                  |
| 48        | 05065836       | Oil mist monitor              |
| 48        | 05091954       | Tapping box                   |
| <b>49</b> |                | <b>Tools</b>                  |
| 49        | 05021797       | Turning gear                  |
| 49        | 05021803       | Turning gear                  |
| 49        | 05021804       | Drive                         |
| 49        | 05021805       | Drive                         |
| 49        | 05021806       | Lock/stop                     |
| 49        | 05024514       | Warning system                |
| <b>51</b> |                | <b>Measuring instruments</b>  |
| 51        | 05062206       | Support                       |
| 51        | 05062212       | Connection                    |
| 51        | 05081373       | Cover                         |
| 51        | 05081796       | Cover                         |
| 51        | 05081929       | Cover                         |
| 51        | 05081964       | Cover                         |
| <b>56</b> |                | <b>Engine shutdown</b>        |
| 56        | 05021996       | Cylinder                      |
| 56        | 05021999       | Rod end                       |
| 56        | 05022048       | Stopping equipment            |
| 56        | 05022050       | Stopping equipment            |
| <b>58</b> |                | <b>Intercooler</b>            |
| 58        | 05060736       | Charge air cooler             |
| 58        | 05061377       | Cooler assembly               |
| <b>66</b> |                | <b>Flywheel bearing</b>       |
| 66        | 05034899       | Flywheel bearing              |
| <b>86</b> |                | <b>Cylinder lubrication</b>   |
| 86        | 05020344       | Lubric. oil filter            |
| 86        | 05023285       | Blanking parts                |
| 86        | 05061212       | Accessories                   |
| 86        | 05062956       | Lubric. oil filter            |

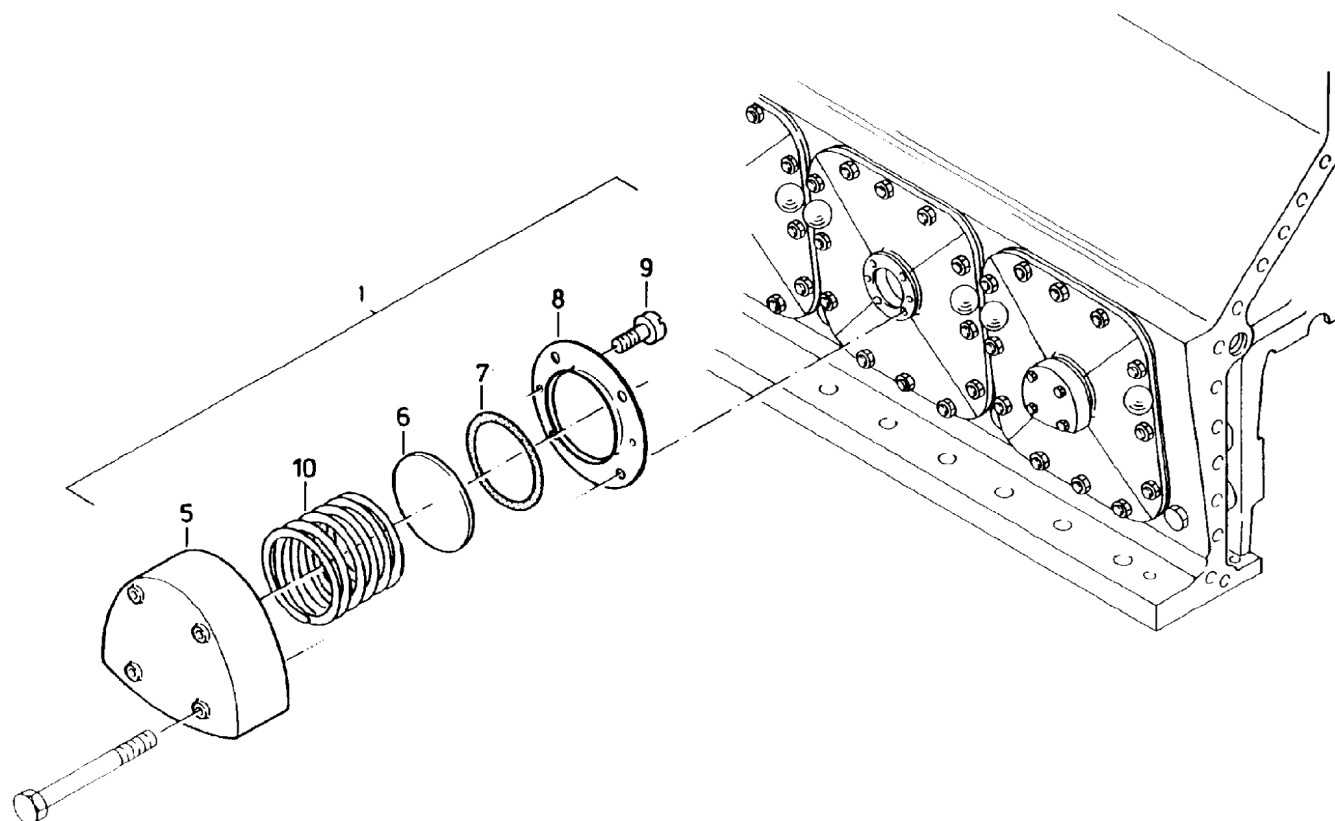
**Equipment:** DEUTZ **Engine type** S/BV12,16M640

| CG | ETL-No.  | Designation                |
|----|----------|----------------------------|
| 87 |          | <del>Charge air pipe</del> |
| 87 | 05060514 | Charge air pipe            |
| 87 | 05061383 | Charge air pipe            |

**ETL no.: 05014443 Relief valve**
**Constr. Group: 1**
**Equipment: DEUTZ**
**Engine type: S/BV12,16M640**

**0501 4443**

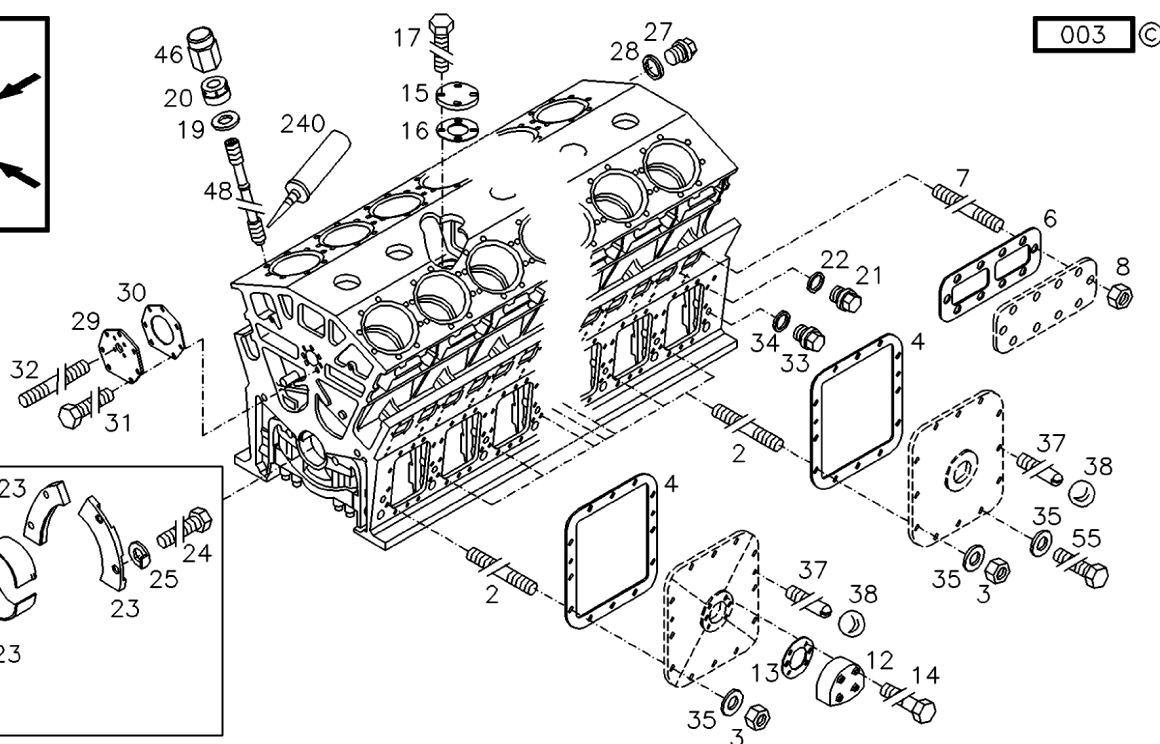
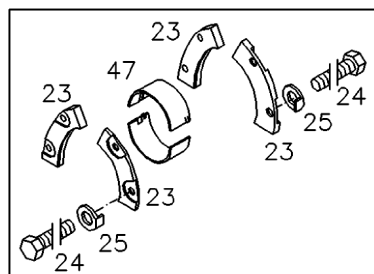
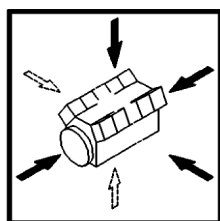
| Item | Partno   | Quantity | UnitOrd | Designation (en)  | Remark |
|------|----------|----------|---------|-------------------|--------|
| 201  | 03324681 | 1        | ST      | Housing/case      |        |
| 202  | 03321400 | 1        | ST      | Plain washer      |        |
| 203  | 01210345 | 1        | ST      | Helical spring    |        |
| 207  | 01166140 | 1        | ST      | O-seal            |        |
| 214  | 03324683 | 1        | ST      | Support/carrier   |        |
| 215  | 01105522 | 2        | ST      | Cheese head screw |        |

**ETL no.: 05017730 Relief valve**
**Equipment:** DEUTZ

**Constr. Group: 1**
**Engine type:** S/BV12,16M640


0501 7730

| Item | Partno   | Quantity | UnitOrd | Designation (en)  | Remark   |
|------|----------|----------|---------|-------------------|--|
| 1    | 03324682 | 1        | ST      | Relief valve      | KOMPLETT<br>OEFNUNGSDRUCK 0,1 BAR<br>950<br>002<br>(2-6) |
| 5    | 03324681 | 1        | ST      | Housing/case      |  |
| 6    | 03321400 | 1        | ST      | Plain washer      |  |
| 7    | 01166140 | 1        | ST      | O-seal            |  |
| 8    | 03324683 | 1        | ST      | Support/carrier   |  |
| 9    | 01105522 | 2        | ST      | Cheese head screw |  |
| 10   | 01210345 | 1        | ST      | Helical spring    |  |

**ETL no.: 05060827 Crankcase parts**
**Constr. Group: 1**
**Equipment: DEUTZ**
**Engine type: S/BV12,16M640**

**0506 0827**

| Item | Partno   | Quantity | UnitOrd | Designation (en)   | Remark  |
|------|----------|----------|---------|--------------------|---|
| 2    | 01113553 | 32       | ST      | Stud               | UP TO ENGINE SERIAL NO.<br>192 X                              |
| 3    | 01148420 | 32       | ST      | Hexagon nut        | UP TO ENGINE SERIAL NO.<br>192 X                              |
| 4    | 02000409 | 16       | ST      | Gasket             |   |
| 6    | 02000412 | 16       | ST      | Gasket             |   |
| 7    | 01125608 | 32       | ST      | Stud               | UP TO ENGINE SERIAL NO.<br>160 X                              |
| 8    | 01148419 | 32       | ST      | Hexagon nut        | UP TO ENGINE SERIAL NO.<br>160 X                              |
| 12   | 03324682 | 9        | ST      | Relief valve       | FOR SINGLE PARTS SEE PN-L<br>IST<br>SHEET<br>0189-01-501 7730 |
| 13   | 01216387 | 9        | ST      | Round flang.gasket | UP TO ENGINE SERIAL NO.<br>16 X                               |
| 14   | 01151513 | 36       | ST      | Hexagon bolt       |   |
| 15   | 02039252 | 8        | ST      | Blank flange       |   |
| 16   | 04046074 | 8        | ST      | Gasket             |   |
| 17   | 01151549 | 32       | ST      | Hexagon bolt       |   |
| 19   | 02000415 | 64       | ST      | Plain washer       |   |
| 20   | 02000416 | 128      | ST      | Annular nut        |   |
| 21   | 01139720 | 32       | ST      | Screw plug         |   |
| 22   | 01118737 | 32       | ST      | Sealing ring       |   |
| 23   | 02000417 | 36       | ST      | Guide plate        |   |
| 24   | 01144597 | 72       | ST      | Hexagon bolt       |   |

**ETL no.: 05060827 Crankcase parts**
**Constr. Group: 1**
**Equipment: DEUTZ**
**Engine type: S/BV12,16M640**

| Item | Partno   | Quantity | UnitOrd | Designation (en) | Remark  |
|------|----------|----------|---------|------------------|---|
| 25   | 01106348 | 72       | ST      | Plain washer     |   |
| 27   | 01110441 | 1        | ST      | Screw plug       |   |
| 28   | 01118748 | 1        | ST      | Sealing ring     |   |
| 29   | 02001444 | 1        | ST      | Cover            |   |
| 30   | 04046104 | 1        | ST      | Gasket           |   |
| 31   | 01148259 | 7        | ST      | Hexagon bolt     |   |
| 32   | 01113386 | 4        | ST      | Stud             |   |
| 33   | 01148428 | 9        | ST      | Screw plug       |   |
| 34   | 01118727 | 9        | ST      | Sealing ring     |   |
| 35   | 01107110 | 192      | ST      | Plain washer     |   |
| 37   | 02002802 | 32       | ST      | Headless screw   |   |
| 38   | 01168286 | 32       | ST      | Ball knob        |   |
| 46   | 04041957 | 64       | ST      | Protecting cap   | AS FROM ENGINE SERIAL NO.   |
| 47   | 04045690 | 9        | ST      | Main bearing     | STANDARD (A)MM, FOR UNDER<br>SIZE<br>SEE ITEM (B)<br>A = 355/340<br>B = 951 - 979 |
| 48   | 04046119 | 128      | ST      | Waisted stud     | BIS MOTOR NR.<br>AB MOTOR NR.POS.950  |
| 55   | 01148396 | 160      | ST      | Hexagon bolt     |   |
| 240  | 01009885 | 1        | ST      | Packing compound |   |
| 951  | 04045691 | 1        | ST      | Main bearing     | 1ST UNDERSIZE<br>355/339  |
| 952  | 04045692 | 1        | ST      | Main bearing     | 2ND UNDERSIZE<br>355/338  |
| 953  | 04045693 | 1        | ST      | Main bearing     | 3RD UNDERSIZE<br>355/337  |
| 954  | 04045694 | 1        | ST      | Main bearing     | 4TH UNDERSIZE<br>355/336  |
| 955  | 04045695 | 1        | ST      | Main bearing     | 5TH UNDERSIZE<br>355/335  |
| 956  | 04045696 | 1        | ST      | Main bearing     | STANDARD<br>356/340   |
| 957  | 04045697 | 1        | ST      | Main bearing     | 1ST UNDERSIZE<br>356/339  |
| 958  | 04045698 | 1        | ST      | Main bearing     | 2ND UNDERSIZE<br>359/338  |
| 959  | 04045699 | 1        | ST      | Main bearing     | 3RD UNDERSIZE<br>356/337  |
| 960  | 04045700 | 1        | ST      | Main bearing     | 4TH UNDERSIZE<br>356/336  |
| 961  | 04045701 | 1        | ST      | Main bearing     | 5TH UNDERSIZE<br>356/335  |
| 962  | 04045702 | 1        | ST      | Main bearing     | STANDARD<br>357/340   |
| 963  | 04045703 | 1        | ST      | Main bearing     | 1ST UNDERSIZE<br>357/339  |
| 964  | 04045704 | 1        | ST      | Main bearing     | 2ND UNDERSIZE<br>357/338  |
| 965  | 04045705 | 1        | ST      | Main bearing     | 3RD UNDERSIZE<br>357/337  |