

# VOLVO BM 646

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### Main bearing shells

General: bearing shell location in block

|                     |                                |
|---------------------|--------------------------------|
| Thickness: standard | 2.017-2.024 mm (0.1183-0.1187) |
| undersize 0.010"    | 0.004-0.011 mm (0.1594-0.1597) |
| 0.020"              | 0.10-0.106 mm (0.1312-0.1327)  |
| 0.030"              | 0.006-0.016 mm (0.1300-0.1307) |
| 0.040"              | 0.406-0.440 mm (0.1594-0.1597) |
| 0.050"              | 0.045-0.049 mm (0.1402-0.1407) |

### Big-end bearings

#### Connecting rod pins

|                                    |                                  |
|------------------------------------|----------------------------------|
| Big-end bearing, rod pin clearance | 0.006-0.008 mm (0.0002-0.0003)   |
| Bearing pin length                 | 40.000-40.005 mm (1.5748-1.5737) |
| General: standard                  | 1.000-1.011 mm (0.0394-0.0397)   |
| undersize 0.010"                   | 0.000-0.008 mm (0.0000-0.0003)   |
| 0.020"                             | 0.106-0.108 mm (0.0042-0.0043)   |
| 0.030"                             | 0.006-0.010 mm (0.0002-0.0004)   |
| 0.040"                             | 0.475-0.478 mm (0.0187-0.0189)   |
| 0.050"                             | 0.045-0.049 mm (0.0018-0.0019)   |

#### Connecting rod shells

|                     |                                  |
|---------------------|----------------------------------|
| Thickness: standard | 46.007-46.008 mm (2.1662-2.1667) |
| undersize 0.010"    | 46.000-46.005 mm (2.1654-2.1657) |
| 0.020"              | 46.005-46.010 mm (2.1655-2.1657) |
| 0.030"              | 46.015-46.024 mm (2.1700-2.1697) |
| 0.040"              | 46.027-46.034 mm (2.1696-2.1697) |
| 0.050"              | 46.047-46.050 mm (2.0095-2.1697) |

### Connecting rods

Marked 1 to 6 "16047" marking on steel flange forward

Provided with replaceable bearing shells

|   |                                  |
|---|----------------------------------|
| General: connecting rod bearing bearing shell | 46.007-46.008 mm (2.1662-2.1667) |
| bearing shell bearing pin                     | 75.140-75.152 mm (2.9571-2.9587) |
| pin/bushing pin bearing                       | See bearing "bushings pin"       |
| rod clearance: connecting rod - crankshaft    | 0.10-0.20 mm (0.004-0.008)       |

### Plywheel, fitted

Max. permissible axial force measuring radius 100 mm ± 0"

|                     |                  |
|---------------------|------------------|
| Key gap on flywheel | 0.15 mm (0.006") |
|                     | 140 mm           |

### Plywheel casing, fitted

Max. permissible axial force for contact surface against crank casing

|  |                        |
|--|------------------------|
| Max. permissible axial force for steering bearing against crank casing | 0.15 mm (0.006")       |
|  | Max. 4.25 mm (0.1673") |

### Crankshaft

|                             |                                  |
|-----------------------------|----------------------------------|
| Size                        | Size                             |
| Number of bearings          | 7                                |
| First bearing pin, standard | 46.000-46.015 mm (2.1644-2.1657) |
| 2nd bearing pin, standard   | 46.027-46.040 mm (2.0226-2.0237) |
| 3rd bearing pin, standard   | 46.025-46.030 mm (2.0096-2.0097) |
| 4th bearing pin, standard   | 46.040-46.045 mm (2.0079-2.0080) |

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