

Equipment information

| | |
|------------------------------------|-------------------|
| Equipment: | 00002200948 |
| Type: | TBD12 616V |
| Output: | 0000648,0 kW |
| Speed: | 1800 1/min |
| Build date: | 03.08.1999 |
| KLU-Number: | |
| ETL scope: | EU211912 |
| MVS: | 211 |
| Customer: | IML MOTORI S.P.A. |
| Location: | LOMAGNA (LC) |
| Country: | Italy |
| VKU date: | 06.09.1999 |
| VKU' date: | |
| Commissioning date: | |
| Begin of guarantee period: | |
| Man. begin of guar. period: | no |
| End of guarantee period: | |
| ID maintenance contract: | |
| ID insurance contract: | |
| Guarantee package: | 24 |

Assembly group directory

| | | | |
|-------------------|--------------|---------------------|------------|
| Equipment: | 00002200948 | Engine type: | TBD12 616V |
| Output: | 0000648,0 kW | Speed: | 1800 1/min |
| ETL scope: | EU211912 | | |

| CG | ETL-No. | Designation (en) | Designation (en) |
|-----------|-----------|-----------------------------|--------------------|
| 1 | | Crankcase | |
| 1 | 0509 4815 | Locating bearing | Locating bearing |
| 1 | 0509 5139 | Crankcase breather | Crankcase breather |
| 1 | 0509 5358 | Main bearing | Main bearing |
| 1 | 0509 5861 | Crankcase | Crankcase |
| 2 | | Oil pan | |
| 2 | 0509 4914 | Oil pan | Oil pan |
| 2 | 0509 5498 | Oil filler neck | Oil filler neck |
| 5 | | Crankshaft | |
| 5 | 0509 4936 | Flywheel | Flywheel |
| 5 | 0509 5618 | Crankshaft | Crankshaft |
| 6 | | Connecting rod | |
| 6 | 0509 4762 | Connecting rod | Connecting rod |
| 7 | | Piston | |
| 7 | 0509 4763 | Piston | Piston |
| 8 | | Cylinder head | |
| 8 | 0509 5122 | Valve mechan.cover | Valve mechan.cover |
| 8 | 0509 6082 | Cylinder head | Cylinder head |
| 9 | | Timing chest | |
| 9 | 0509 4842 | Axle | Axle |
| 9 | 0509 4844 | Cover | Cover |
| 9 | 0509 4845 | Cover | Cover |
| 9 | 0509 4847 | Gearcase | Gearcase |
| 9 | 0509 5477 | Crankc. end cover | Crankc. end cover |
| 10 | | Camshaft | |
| 10 | 0509 4778 | Camshaft | Camshaft |
| 11 | | Timing gears | |
| 11 | 0509 4979 | Valve drive | Valve drive |
| 11 | 0509 5017 | Actuat. mechanism | Actuat. mechanism |
| 14 | | Lube oil pump | |
| 14 | 0509 5284 | Gear.oil feed pump | Gear.oil feed pump |
| 15 | | Lube oil/-cooler | |
| 15 | 0509 4790 | Lubric. oil filter | Lubric. oil filter |
| 15 | 0509 4809 | Oil cooler | Oil cooler |
| 16 | | Oil pipes | |
| 16 | 0509 5860 | Oil suction line | Oil suction line |
| 16 | 0509 6030 | Lubricat. oil line | Lubricat. oil line |
| 17 | | Injection pump | |
| 17 | 0509 5096 | Fastenings | Fastenings |
| 17 | 0509 5282 | Fuel inject. pump | Fuel inject. pump |
| 17 | 0509 5443 | Fuel supply pump | Fuel supply pump |
| 17 | 0509 5485 | Parts inject.pump | Parts inject.pump |
| 17 | 0509 5975 | Lubricat. oil line | Lubricat. oil line |
| 17 | 0509 5979 | Controller | Controller |
| 18 | | Injection pump drive | |
| 18 | 0509 4817 | Inject. pump drive | Inject. pump drive |
| 18 | 0509 4919 | Denture clutch | Denture clutch |
| 19 | | Injector | |

| | | | |
|-------------------|--------------|---------------------|------------|
| Equipment: | 00002200948 | Engine type: | TBD12 616V |
| Output: | 0000648,0 kW | Speed: | 1800 1/min |
| ETL scope: | EU211912 | | |

| CG | ETL-No. | Designation (en) | Designation (en) |
|-----------|-----------|---------------------------------|--------------------|
| 19 | 0509 5010 | Fuel injector | Fuel injector |
| 20 | | Fuel filter | |
| 20 | 0509 1688 | Fuel filter | Fuel filter |
| 20 | 0509 5013 | Fuel filter/pipe | Fuel filter/pipe |
| 21 | | Fuel pipes/fuel tank | |
| 21 | 0509 1983 | Hose assembly | Hose assembly |
| 21 | 0509 4890 | High pressure pipe | High pressure pipe |
| 21 | 0509 5064 | Pipe/line/lead | Pipe/line/lead |
| 21 | 0509 5824 | Fuel line | Fuel line |
| 22 | | Suction pipe/air cleaner | |
| 22 | 0508 9170 | Service gauge | Service gauge |
| 22 | 0509 4448 | Intake manifold | Intake manifold |
| 22 | 0509 5100 | Filter | Filter |
| 22 | 0509 5783 | Air filter fitment | Air filter fitment |
| 34 | | Vibration damper | |
| 34 | 0509 4945 | Vibration damper | Vibration damper |
| 37 | | Cooling water pump | |
| 37 | 0509 5053 | Idler gear | Idler gear |
| 37 | 0509 5394 | Centrifugal pump | Centrifugal pump |
| 38 | | Water pipes | |
| 38 | 0509 5117 | Coolant pipe | Coolant pipe |
| 38 | 0509 5607 | Coolant pipe | Coolant pipe |
| 41 | | Exhaust manifold | |
| 41 | 0509 4679 | Compensator | Compensator |
| 41 | 0509 5319 | Exhaust manifold | Exhaust manifold |
| 41 | 0509 5666 | Exhaust gas bend | Exhaust gas bend |
| 43 | | Turbocharger | |
| 43 | 0509 5134 | Insulation | Insulation |
| 43 | 0509 5326 | Turbocharger | Turbocharger |
| 43 | 0509 6036 | Turbocharging assy | Turbocharging assy |
| 44 | | Alternator/starter motor | |
| 44 | 0500 3725 | Protecting cap | Protecting cap |
| 44 | 0503 2662 | Narrow v-belt | Narrow v-belt |
| 44 | 0507 1230 | Generator | Generator |
| 44 | 0509 0681 | Cover | Cover |
| 44 | 0509 4210 | Starter | Starter |
| 44 | 0509 5562 | Parts start.motor | Parts start.motor |
| 44 | 0509 5603 | Driving parts | Driving parts |
| 46 | | Engine mounting, rigid | |
| 46 | 0509 4734 | Engine mounting | Engine mounting |
| 48 | | Electrical accessories | |
| 48 | 0509 5936 | Accessories | Accessories |
| 52 | | Clutch | |
| 52 | 0509 0679 | Interm.flange | Interm.flange |
| 52 | 0509 4810 | Flywheel housing | Flywheel housing |
| 57 | | V-belt guard | |
| 57 | 0509 5166 | V-belt guard | V-belt guard |
| 87 | | Charge air pipe | |
| 87 | 0509 5411 | Air guide housing | Air guide housing |

| | | | |
|-------------------|--------------|---------------------|------------|
| Equipment: | 00002200948 | Engine type: | TBD12 616V |
| Output: | 0000648,0 kW | Speed: | 1800 1/min |
| ETL scope: | EU211912 | | |

| CG | ETL-No. | Designation (en) | Designation (en) |
|----|-----------|------------------|------------------|
| 87 | 0509 5628 | Mating part | Mating part |
| 90 | | Set of parts | |
| 90 | 0509 5363 | Gasket set | Gasket set |
| 90 | 0509 5371 | Gasket set | Gasket set |
| 90 | 0509 5587 | Gasket set | Gasket set |

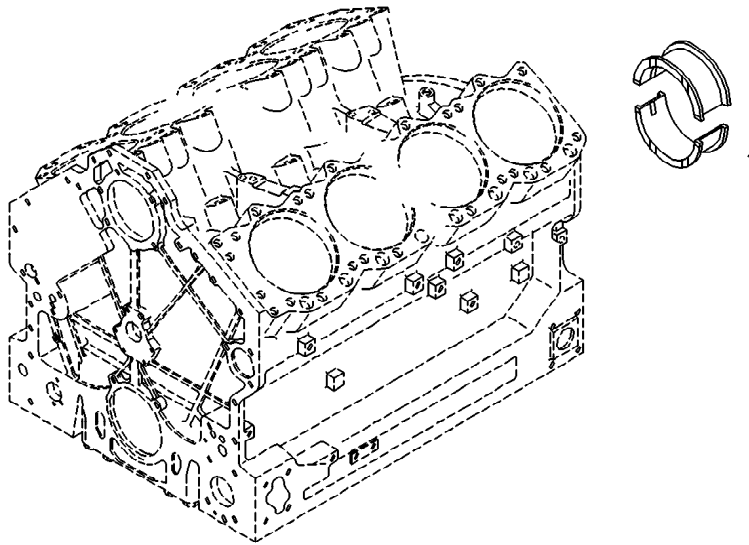
ETL no.: 0509 4815 Locating bearing

Constr. Group: 01

Equipment: 00002200948
Output: 0000648,0 kW
ETL scope: EU211912

Engine type: TBD12 616V
Speed: 1800 1/min

002



0509 4815

| Item | Material | Kit | MS VS | Quant | Unit | Ord | Designation (en) | Designation (en) | Remark |
|------|----------|-------|-------|-------|------|-----|------------------|------------------|--------|
| 1 | 12276203 | Kit ! | | 1 | ST | | Locating bearing | Locating bearing | |

ETL no.: 0509 5139 Crankcase breather Constr. Group: 01

Equipment:

Output:

ETL scope:

00002200948

0000648,0 kW

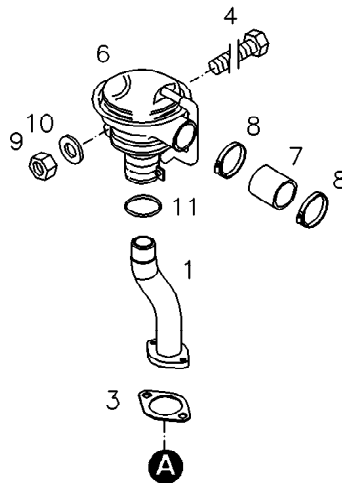
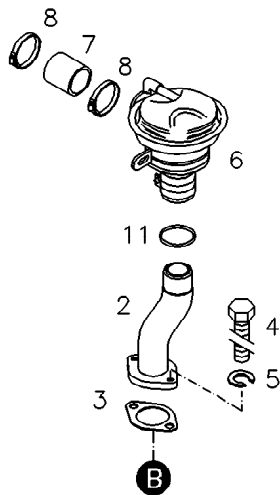
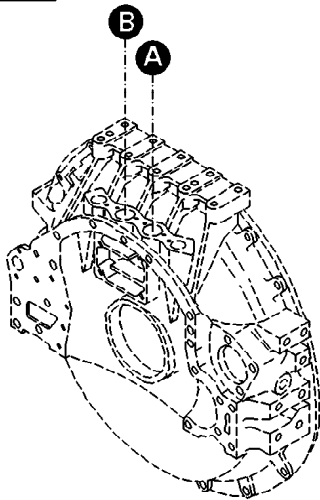
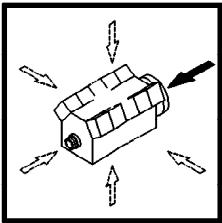
EU211912

Engine type:

Speed:

TBD12 616V

1800 1/min



003

0509 5139

| Item | Material | Kit | MS | VS | Quant | Unit | Ord | Designation (en) | Designation (en) | Remark |
|------|----------|-------|----|----|-------|------|-----|--------------------|--------------------|--------|
| 1 | 12276912 | | 90 | 1 | ST | | | Flanged socket | Flanged socket | |
| 2 | 12276913 | | | 1 | ST | | | Flanged socket | Flanged socket | |
| 3 | 01178421 | | | 2 | ST | | | Gasket | Gasket | |
| 4 | 01137083 | 20 | 20 | 4 | ST | | | Hexagon bolt | Hexagon bolt | |
| 5 | 01177981 | | | 4 | ST | | | Spring lock washer | Spring lock washer | |
| 6 | 12270354 | Kit ! | | 2 | ST | | | Oil separator | Oil separator | |
| 7 | 12163475 | Kit ! | | 2 | ST | | | Tubing connection | Tubing connection | |
| 8 | 01177986 | Kit ! | | 4 | ST | | | Hose clip | Hose clip | |
| 11 | 01153892 | Kit ! | 90 | 90 | 2 | ST | | O-seal | O-seal | |

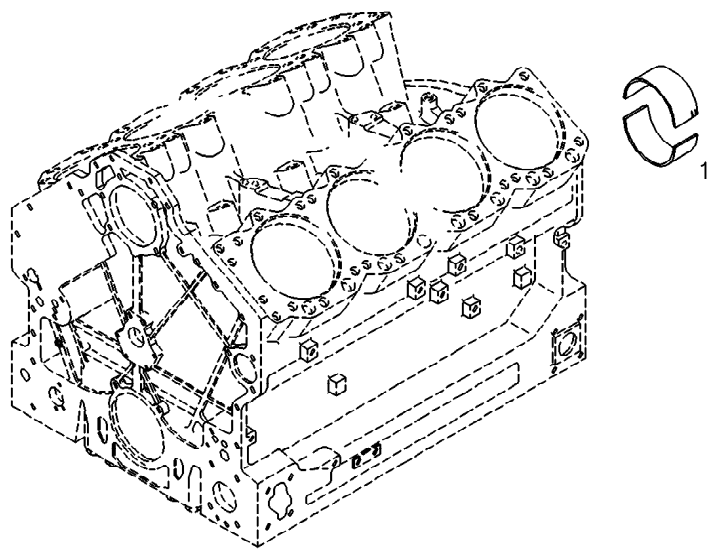
ETL no.: 0509 5358 Main bearing

Constr. Group: 01

Equipment: 00002200948
Output: 0000648,0 kW
ETL scope: EU211912

Engine type: TBD12 616V
Speed: 1800 1/min

001



0509 5358

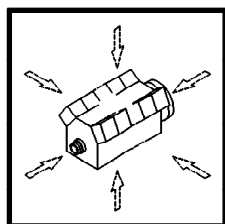
| Item | Material | Kit | MS VS | Quant | Unit | Ord | Designation (en) | Designation (en) | Remark |
|------|----------|-------|-------|-------|------|-----|------------------|------------------|--------|
| 1 | 12312137 | Kit ! | | 1 | ST | | Main bearing | Main bearing | |

ETL no.: 0509 5861 Crankcase

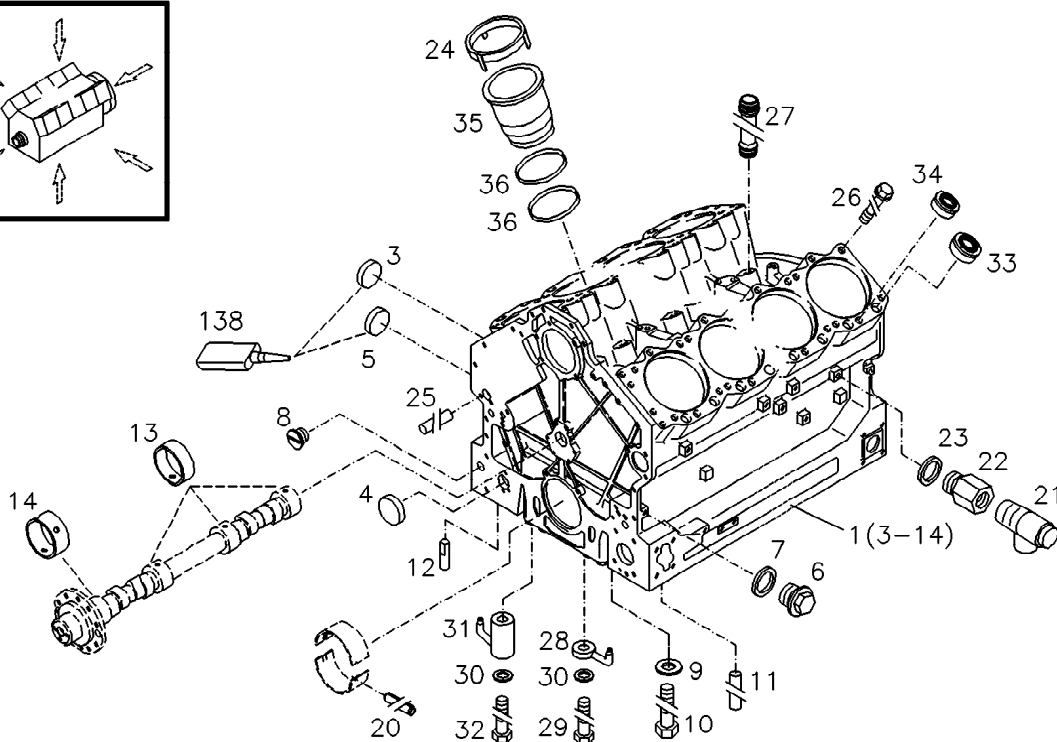
Constr. Group: 01

Equipment: 00002200948
 Output: 0000648,0 kW
 ETL scope: EU211912

Engine type: TBD12 616V
 Speed: 1800 1/min



005 ©



0509 5861

| Item | Material | Kit | MS | VS | Quant | Unit | Ord | Designation (en) | Designation (en) | Remark |
|------|----------|-------|----|----|-------|------|-----|------------------|------------------|--|
| 1 | 12314134 | | 20 | 20 | 1 | ST | | Crankcase | Crankcase | WITH ITEM.... (3-14) OHNE KLASSIFIKATION |
| 3 | 01144676 | | | | 15 | ST | | Cover | Cover | |
| 4 | 01152717 | | | | 1 | ST | | Cover | Cover | |
| 5 | 01152710 | | | | 3 | ST | | Cover | Cover | |
| 6 | 01152105 | | 20 | 20 | 4 | ST | | Screw plug | Screw plug | |
| 7 | 01118681 | | | | 4 | ST | | Sealing ring | Sealing ring | |
| 8 | 01165794 | | | | 2 | ST | | Slotted plug | Slotted plug | |
| 9 | 01154443 | Kit ! | | 70 | 28 | ST | | Plain washer | Plain washer | |
| 10 | 01153796 | Kit ! | | | 28 | ST | | Hexagon bolt | Hexagon bolt | |
| 11 | 12160932 | | | | 7 | ST | | Pin | Pin | |
| 12 | 12160931 | | | | 7 | ST | | Pin | Pin | |
| 13 | 12200055 | Kit ! | | | 6 | ST | | Bearing bush | Bearing bush | |
| 14 | 12190961 | | | | 1 | ST | | Bearing bush | Bearing bush | |
| 20 | 01115413 | | | | 7 | ST | | Straight pin | Straight pin | |
| 21 | 12188643 | | | | 1 | ST | | Drain valve | Drain valve | |
| 22 | 12161138 | | | | 1 | ST | | Screw connector | Screw connector | |
| 23 | 01118688 | Kit ! | | | 1 | ST | | Sealing ring | Sealing ring | |
| 24 | 12275302 | Kit ! | | | 12 | ST | | Sealing ring | Sealing ring | |
| 25 | 01105181 | Kit ! | | | 4 | ST | | Parallel pin | Parallel pin | |
| 26 | 12163212 | Kit ! | | | 48 | ST | | Hexagon bolt | Hexagon bolt | |
| 27 | 12276145 | Kit ! | | | 24 | ST | | Protecting tube | Protecting tube | |