TECHNICAL DATA
ENGINE MODEL N2.10

namidiesel
energy in blue

ENGINE SPECIFICATION

Number of cylinders: 2
Displacement: 479 cc
Bore - Stroke: 67 X 68 mm
Compression ratio : 23/1
Mini compression pressure: 23bars
Compression pressure: 29 to 33 bars
Maximum speed without load: 3250 rpm
Maximum RPM in load: 3000 rpm
Idle RPM in forward gear: 1050 rpm
Firing order: 1 - 2
Rotation: Anti clockwise (flywheel)

INJECTION

Type of injector: BOSCH JET
Fuel injection pressure: 140 bars
Injection pump manufacturer:
BOSCH MD MINI
Injection timing: 20 to 22° before TDC

TIGHTENING TORQUE

Arm head cover cap nuts: 0.4 to 0.6 kgf
Cylinder head bolts: 4 to 4.5 kgf
Flywheel bolts: 5.5 to 6 kgf
Connecting rod bolts: 2.7 to 3.1 kgf
Rocker arm bracket nuts: 1 to 1.15 kgf
Main bearing caps bolts M6: 1.3 to 1.6 kgf
Main bearing caps bolts M7: 2.7 to 3.1 kgf
Nozzle holder assembly: 5 to 7 kgf
Glow plugs: 0.8 to 1.5 kgf

LUBRIFICATION

Oil pressure at idle RPM: 1 bar
Oil pressure at maximum load:
2 to 4.5 bars
Recommended oil: API CD 15W40
Oil pan capacity: 1.9 litres
Gearbox model :
Oil capacity: } see model used
Recommended oil:

COOLING SYSTEM

Capacity: 2.7 litres
Liquid: 50% antifreeze + 50% water

DIAGRAMS

Valve clearance (cold):
Inlet: 0.15 to 0.18 mm
Exhaust: 0.15 to 018 mm
Valve recessing: 0.30 mm

PISTON RINGS

Piston ring gap:
Piston compression: 0.15 to 0.30 mm
Oil control: 0.30 to 0.45 mm

CYLINDER HEAD

Cylinder head surface flatness: < 0.05mm

SEA WATER PUMP

Water flow: 22 litres/mn

GLOW PLUGS

Resistance :≅ 0.90 ohms