TECHNICAL DATA ENGINE MODEL N2.10



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: 20 litres/mn

GLOW PLUGS

Resistance : 20.90 ohms