P-Drive Engine- WP13 Series

General Specifications

Bore & Stroke 127×165 mm
Displacement 12.54 L
Cylinder Number 6
Compression ratio 16:1
Fuel System Mechanical Pump
Aspiration TA

<table>
<thead>
<tr>
<th>Model</th>
<th>Rated Power/Speed</th>
<th>Max Torque/Speed</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>kW/r/min</td>
<td>N/m/r/min</td>
</tr>
<tr>
<td>WP13B310E200</td>
<td>310/1500</td>
<td>2182/1300</td>
</tr>
<tr>
<td>WP13B350E200</td>
<td>350/1500</td>
<td>2300/1400</td>
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</tbody>
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Standard Equipment

**Engine and block**
- Cast iron frame style body structure
- One-piece forged crankshaft
- Split-cap forged steel connecting rods
- Separate cast iron cylinder heads with 4 valves
- Replaceable dry cylinder liners
- Aluminium alloy pistons with gallery oil cooling

**Cooling system**
- Radiator and hoses supplied separately
- Thermostatically-controlled system with poly belt driven coolant pump and pusher fan

**Lubrication system**
- Flat bottom large capacity oil pan (30 L)
- Spin-on full-flow lub oil filter

**Fuel system**
- P type fuel injection pump and injector for higher inject pressure
- Duplex fine filter and Water separated filter assembly with the transparent cup

**Air intake and exhaust system**
- Mid-position and below inlet turbocharger, Shutoff solenoid
- Special rear mounted air filter with restriction indicator
- Silicone tubes and strong clips for pipe connecting
- Stainless steel exhaust manifold cover for heat isolating

**Electrical system**
- 24V electric starter motors and battery charging alternator
- Standard sensor connector

**Flywheel and housing**
- SAE1 flywheel housing and 14” flywheel

Optional Equipment

- Radiator for tropical environment (50°C)
- Immersion heater with thermostat
- Intake air heater for cold start aid
- Manual drawing off oil pump
- Tool Kits
Dimensions and Weight

<table>
<thead>
<tr>
<th>Specification</th>
<th>Measurement</th>
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<tbody>
<tr>
<td>Length</td>
<td>2169 mm</td>
</tr>
<tr>
<td>Width</td>
<td>1134 mm</td>
</tr>
<tr>
<td>Height</td>
<td>1350 mm</td>
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<tr>
<td>Weight</td>
<td>1100 kg</td>
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</tbody>
</table>

Power definition
- Standard: ISO 3046/1 -1995(F)

Reference conditions
- Ambient temperature: 25 °C
- Barometric pressure: 100 kPa
- Relative humidity: 30%

Fuel oil
- Relative density: 0.840 ± 0.005
- Lower calorific power: 42,700 kJ/kg
- Consumption tolerances: ± 5%

Lube oil
- Recommend grade: CF 15W/40

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