The 1104D-44T IOPU is a new addition to the 1100 Series range of IOPU engines. These ultra clean engines are assembled on a new high technology production line. Frequent computerized checks during the production process ensure high build quality is maintained throughout.

The 1104D IOPU range of engines have a complete fuel system, air cleaner and radiator fitted as standard along with a choice of mechanical or electronic control system making these the ultimate power solution.

The 1100D range with their wide choice of build options, plus all the features and benefits, present a secure future for all our customers at Tier 3/Stage IIIA emissions legislation, and is the platform on which the long-term solution to Tier 4/Stage III B legislation will be built.

**Powered by your Needs**
- The 1104D-44T IOPU offers a choice of build configurations to match the power needs of customers for a diverse range of applications.

**State of the Art Design**
- The 1104D utilises the latest diesel mechanical controlled fuel system technology. This allows the 1104D-44T to deliver high power density and excellent fuel economy with low exhaust emissions and minimum heat rejection.

**Reduced Noise**
- Noise minimised at source - engine sound levels have been reduced by 2 dBA.
- Reduction in noise suppression costs.

**Component Commonality**
- Shared front and rear ends and ‘repeated’ components - pistons, con rods and valve gear.
- Rationalised inventory, streamlined training and consistent serviceability.

**Lower Installation Costs**
- Virtually identical hook-up points and envelope size as the 1104C-44TA.
- Customer enjoys a seamless transition during the emissions changeover process.

**Lower Operating Costs**
- The 1104D maintains Tier 2/Stage II fuel economy, allowing customers to keep existing fuel tanks.
- Service intervals are 500 hours standard.
- Perkins comprehensive warranty cover for two years with three years on major engine components.
- Low usage warranty package is also available.

**Product Support**
- Perkins actively pursues product support excellence by ensuring our distribution network invest in their territory - strengthening relationships and providing more value to you, our customer.
- Through an experienced global network of distributors and dealers, fully trained engine experts deliver total service support around the clock, 365 days a year. They have a comprehensive suite of web based tools at their fingertips covering technical information, parts identification and ordering systems, all dedicated to maximising the productivity of your engine.
- Throughout the entire life of a Perkins engine, we provide access to genuine OE specification parts and service. We give 100% reassurance that you receive the very best in terms of quality for lowest possible cost .. wherever your Perkins powered machine is operating in the world.

**Engines certified to Tier 3/Stage III A emissions legislation.**

<table>
<thead>
<tr>
<th>Engine Performance</th>
<th>Net Intermittent</th>
<th>Engine Speed</th>
<th>Pump Sets</th>
<th>Engine Speed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max power (kW)</td>
<td>66.0</td>
<td>2200</td>
<td>56.1</td>
<td>2000</td>
</tr>
<tr>
<td>Max power (bhp)</td>
<td>88.5</td>
<td>2200</td>
<td>75.2</td>
<td>2000</td>
</tr>
<tr>
<td>Max torque (Nm)</td>
<td>392.0</td>
<td>1400</td>
<td>333.2</td>
<td>1400</td>
</tr>
<tr>
<td>Max torque (lb ft)</td>
<td>289.1</td>
<td>1400</td>
<td>245.8</td>
<td>1400</td>
</tr>
</tbody>
</table>

Power for a run-in engine after 60 hours.

Net Intermittent = Intermittent service where maximum power and/or are cyclic (time at full load not to exceed 50%).

Rating standard ISO/TR 14396.

All information in this document is substantially correct at time of printing and may be altered subsequently.

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1100 Series
1104D-44T IOPU

Standard IOPU Specification

Air inlet
- Mounted air filter and turbocharger

Cooling system
- Fan (pusher or puller)
- Fan drive
- Radiator
- Water pump

Electrical equipment
- Alternator (12 or 24 volt)
- Starter motor (12 or 24 volt)

Flywheel and housing
- Flywheel
- SAE 3 flywheel housing

Fuel system
- Fuel filter

Lubrication system
- Oil cooler and filter
- Timing case oil filler

Mountings
- Engine mounting brackets

PTO
- SAE A or SAE B front PTO
  (142/280 Nm)

Starting aids
- Glow plugs

Literature
- User's Handbook

Option Groups
The 1104D-44T IOPU offers a wide choice of standard build specifications to meet specific customer needs:
- 12 or 24 volt alternator
- Pusher or puller fan
- SAE A or SAE B front PTO
  (142/280 Nm)
- SAE B provides 63 kW/85 hp
- Air compression

General Data
Number of cylinders 4 in-line
Bore and stroke 105 mm x 127 mm
Displacement 4.4 litres
Aspiration Turbocharged
Cycle 4 stroke
Combustion system Direct injection
Compression ratio 18:2
Direction of rotation Anti-clockwise, viewed on flywheel
Cooling system Liquid
Total lubrication system capacity 8.4 litres
Total coolant capacity 15 litres
Dimensions
- Length 1277 mm
- Width 687.4 mm
- Height 965 mm
Dry weight 536 kg

Final weight and dimensions will depend on completed specification

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