

# 1100 Series

## 1104D-44T

Diesel Engine - Industrial Open Power Unit

66 kW/88.5 bhp



### 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

- Through an experienced global network of distributors and dealers, fully trained engine experts deliver total service support around the clock, 365 days a year. This support is enhanced by TIPSS (The Integrated Parts and Service System). TIPSS enables our distributors and dealers access to a comprehensive suite of web based tools giving 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 giving 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.

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 IIIB legislation will be built.

Engines certified to Tier 3/Stage IIIA emissions legislation.

| Engine Performance  | Net Intermittent | Engine Speed | Net Continuous | Engine Speed |
|---------------------|------------------|--------------|----------------|--------------|
| Max power (kW)      | 66.0             | 2200         | 56.1           | 2000         |
| Max power (bhp)     | 88.5             | 2200         | 75.2           | 2000         |
| Max torque (Nm)     | 392.0            | 1400         | 333.2          | 1400         |
| Max torque (lbf ft) | 289.1            | 1400         | 245.8          | 1400         |

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%).

Net Continuous = Continuous service where the engine is operated at maximum power and speed up to 100% of time.

Rating standard ISO/TR 14396.

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## 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

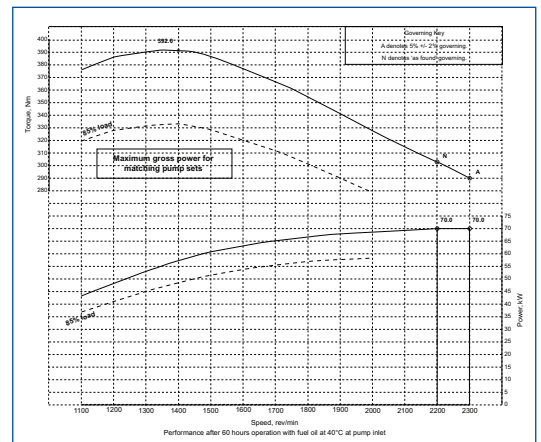
#### Literature

- 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                        | Naturally aspirated                             |
| 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 | (TBA) litres                                    |
| Total coolant capacity            | (TBA) litres                                    |
| Dimensions                        | Length 1277 mm<br>Width 623 mm<br>Height 970 mm |
| Dry weight (Electropak)           | 456 kg  |

Final weight and dimensions will depend on completed specification



### Perkins Engines Company Limited

Peterborough PE1 5NA  
United Kingdom  
Telephone +44 (0)1733 583000  
Fax +44 (0)1733 582240  
[www.perkins.com](http://www.perkins.com)

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