

1100 Series 1104D-44T

74.5 kW / 99.9 hp at 2200 rpm

With the success of their 1100 Series, single platform engines, Perkins have taken development further with the introduction of the new 1100D range to the Series.

The 1100D range is the ultimate power solution. With its wide choice of build options, plus all the features and benefits, it presents 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.

Powered by your needs

- The 1100D range offers the possibility to move between different fuel system technologies and aspirations
- The 1104D mechanical range offers a class-leading choice of aspirations. This includes turbocharged and turbo aftercooled models for use worldwide, with the addition of a naturally aspirated model for markets outside of the US

State of the art design

- Latest diesel technology development used in mechanical control system
- Minimised impact on heat rejection and fuel consumption

Component commonality

- Shared front and rear ends and 'repeated' components – pistons, con rods and valve gear
- Rationalised inventory, streamlined training and consistent serviceability

Reduced noise

- Noise minimised at source – engine sound levels have been reduced by up to 1 dBA
- Reduction in noise suppression costs

Lower installation costs

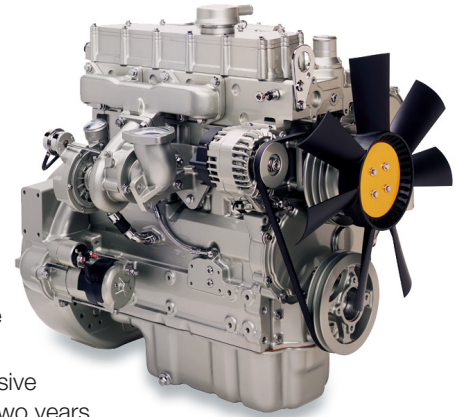
- Virtually identical hook-up points and envelope size as the 1104C model
- Customer enjoys a seamless transition during the emissions changeover process

Lower operating costs

- Service intervals are 500 hours standard
- Perkins comprehensive warranty cover for two years (up to 3,000 hours). With three years on major engine components
- Low usage warranty package is also available

Product support

- Through an experienced network of distributors and dealers, fully trained engine experts deliver total service support around the clock, 365 days a year. This global network uses a comprehensive suite of web based tools 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 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



Meets Tier 3, Stage IIIA emissions requirements. Tier 3 refers to EPA (US) standards. Stage IIIA refers to European standards

| Performance Data | Gross Intermittent (ISO 14396) | Speed (rev/min) |
|----------------------|--------------------------------|-----------------|
| Power Output (kW) | 74.5 | 2200 |
| Power Output (hp) | 99.9 | 2200 |
| Peak Torque (Nm) | 392.0 | 1400 |
| Peak Torque (lbf ft) | 289.1 | 1400 |

The above ratings represent the engine performance capabilities to conditions specified in ISO 8528/1, ISO 3046/1:1986, BS5514/1. Derating may be required for conditions outside these; consult Perkins Engines Company Limited.

Photographs are for illustrative purposes only and may not reflect final specification.

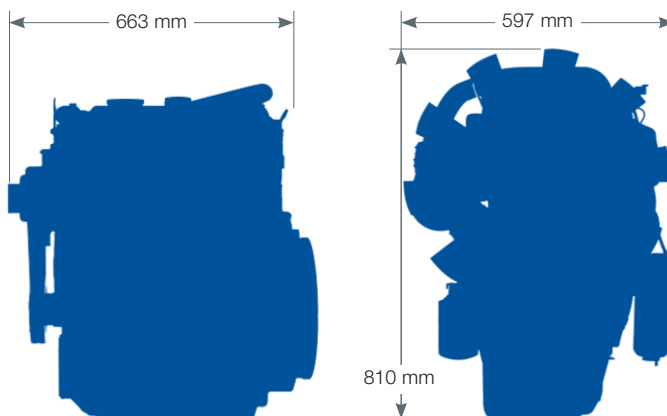
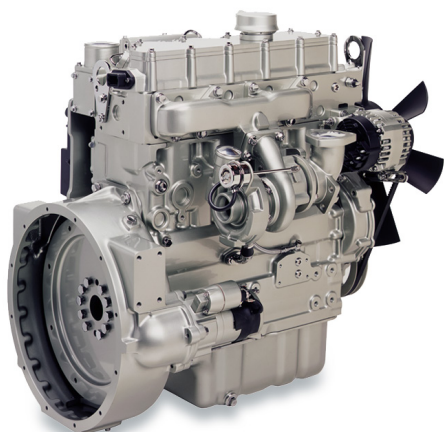
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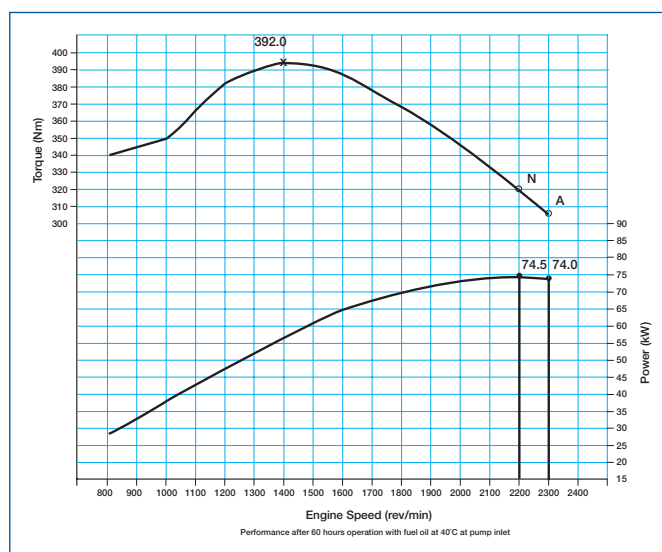
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Engine specification

- Engine ratings
- SAE A or SAE B PTO drive
- Timing case and gear driven auxiliaries
- Flywheel housings
- Flywheel and starter rings
- Oil filter positions
- Adapter plates
- Starter motors
- Fan drives and locations
- Lubricating oil filters and breathers
- Front-end drives
- Alternators
- Belt driven auxiliaries
- Induction manifolds
- Exhaust manifolds
- Fuel filter positions
- Cold start aids
- Engine mountings
- Cooling packs
- Air compressor



Note: lower speed ratings cannot be read off this curve

General data

Number of cylinders 4 vertical 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 16.2:1
 Rotation Anti-clockwise, viewed on flywheel
 Cooling system Liquid
 Dimensions – Length 663 mm
 Width 597 mm
 Height 810 mm
 Dry weight 306 kg
 Final weight and dimensions will depend on completed specification

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