

# 1104C-44T Industrial Diesel Engine

74.5 kW (99.9 hp) @ 2300 rpm

EU Stage II/U.S. EPA Tier 2 equivalent

Whatever your application, there's an 1104 engine for you. Part of the Perkins 1100 Series, the range's 4 cylinder, 4.4 litre engines are smooth and quiet in operation. Designed to meet EU Stage II/IIIA and U.S. EPA Tier 2/Tier 3 equivalent emissions standards, the 1104 range offer a choice of mechanical or electronically controlled common rail engines. Electronically controlled engines deliver the right fuel injection for the load applied to the engine. Common front and rear ends, connection points and components across the range, making it easy to install a different 1100 Series engine in your application. Turbocharged engine designed to meet EU Stage II/U.S. EPA Tier 2 equivalent emissions standards for off road machines.



## Specifications

Power Rating		
Minimum power	74.5 kW	99.9 hp
Maximum power	74.5 kW	99.9 hp
Rated speed	2300 rpm	
Maximum torque	415 Nm @ 1350 rpm	306 lb-ft @ 1350 rpm

Emission Standards	
Emissions	EU Stage II/U.S. EPA Tier 2 equivalent

General		
Number of cylinders	4 inline	
Bore	105 mm	4.13 in
Stroke	127 mm	5 in
Displacement	4.4 litres	269 cubic in
Aspiration	Turbocharged	
Cycle	4 stroke	
Compression ratio	18.2:1	
Combustion system	Direct injection	
Rotation (from flywheel end)	Anti-clockwise	
Cooling system	Liquid	

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Total coolant capacity	7 litres	1.9 US gal
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## Engine Dimensions\*

Length	663 mm	26.1 in
Width	597 mm	23.5 in
Height	810 mm	32 in
Dry weight	372 kg	820.1 lb

## Disclaimer

*Final dimensions dependent on selected options	0	0
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## Features and Benefits

### Designed for lesser regulated territories

The 1100 Series range of engines have been specifically designed for use in territories with Stage II/IIIA and Tier 2/3 equivalent emissions standards, using the best technologies to ensure a reliable and easy to maintain machine. With a choice of naturally aspirated, turbocharged and turbocharged aftercooled it offers the best combination of power delivery and response.

### Ease of maintenance

All of the engines have 500 hour service intervals. And single side service components, for ease of end user servicing.

### Easy to upgrade

Common front and rear ends, connection points and components across the range mean that you can easily install a different 1100 Series engine in your application.

### Expertise whenever you need it

With our network of distributors, you will find all the advice you need to ensure you get the right engine. By building strong relationships with you, we make sure you have access to the full power of the Perkins brand and expertise. Our fully trained experts deliver total service support 24/7, 365 days of the year. Whether you need technical information, parts identification or ordering, our distribution network is there to make sure your Perkins engine keeps on running at peak performance.

### Oil and fuel filtration

The high quality oil and fuel filtration on our 1100 Series range produces an engine that is reliable and durable. Ecoplus fuel filtration is available to boost its clean running qualities and the engine is capable of running on a wide range of global fuels including biodiesel.

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## Technical Information

### Air inlet system

- Cast iron exhaust manifold – centre side outlet
- Integral inlet manifold
- Turbo outlet orientation

### Control system

- 12 and 24 volt alternator 55, 65, 85, 100 amp
- 12 and 24 volt starter motor

### Cooling system

- Cooling fan
- Gear driven coolant pump
- Water outlet

### Flywheel and flywheel housing

### Fuel system

- Plastic J2044 fuel system standard

### General

- Balancer or non-balancer
- Cast iron engine block
- Choice of filler positions
- Glow plug starting aid

### Oil system

- Dipstick (left or right position)
- Lubricating oil sump

### Power take-off

- Provision for PTOs

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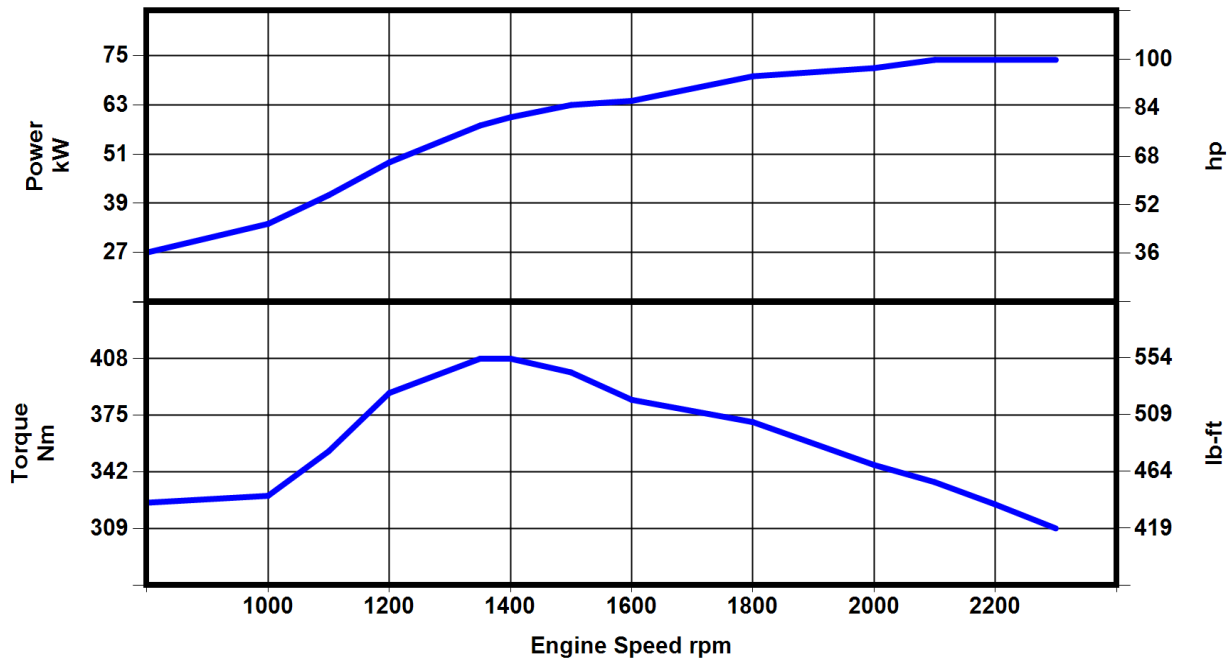
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# 1100 Series 1104C-44T INDUSTRIAL ENGINE

EU Stage II/U.S. EPA Tier 2 equivalent

62.0-74.5 kW / 83.1-99.9 hp



Power kW	Power hp	Rated Speed (rpm)	Torque Nm	Torque lb-ft	Speed (rpm)	Rating Type
62.0	83.1	2200	353	478	1400	Industrial C intermittent rating
66.5	89.2	2200	387	524	1350	Industrial C intermittent rating
68.5	91.9	2200	395	535	1350	Industrial C intermittent rating
72.0	96.6	2000	405	549	1350	Industrial C intermittent rating
72.0	96.6	2100	405	549	1350	Industrial C intermittent rating
72.5	97.2	2200	405	549	1350	Industrial C intermittent rating
72.5	97.2	2300	405	549	1350	Industrial C intermittent rating
72.5	97.2	2000	408	553	1350	Industrial C intermittent rating
74.0	99.2	2100	408	553	1350	Industrial C intermittent rating
74.0	99.2	2200	413	560	1400	Industrial C intermittent rating
74.5	99.9	2200	408	553	1350	Industrial C intermittent rating
74.5	99.9	2300	408	553	1350	Industrial C intermittent rating

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EU Stage II/U.S. EPA Tier 2 equivalent

62.0-74.5 kW / 83.1-99.9 hp

Rating Standard ISO 14396:2002

Additional ratings are available for specific customer requirements. Consult your Perkins distributor.

Unless otherwise specified, all stated data is for maximum rated speed and 100% load.

B rating performance data will be added upon availability

## Rating Definitions and Conditions

### IND-C (Intermittent) Rating

Is the horsepower and speed capability of the engine where maximum power and/or speed are cyclic (time at full load not to exceed 50%).

Rating Conditions for Diesel Engines – up to 7.1 liters are based on ISO/TR14396, inlet air standard conditions with a total barometric pressure of 100 kPa (29.5 in. Hg), with a vapor pressure of 1 kPa (0.295 in Hg) and 25°C (77°F). Performance is measured using fuel to specification EPA 2D 89.330-96 with a density of 0.845-0.850 kg/L @ 15°C (59°F) and fuel inlet temperature 40°C (104°F).

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