

1104C-44TA Industrial Diesel Engine

97 kW (130.1 hp) @ 2200 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 aftercooled engines designed to meet EU Stage II/U.S. EPA Tier 2 equivalent emissions standards for off-road machines.



Specifications

Power Rating		
Minimum Power	97 kW	130.1 HP
Maximum Power	97 kW	130.1 HP
Maximum Torque	500 Nm @ 1400 rpm	369 lb-ft @ 1400 rpm
Rated Speed	2200 rpm	

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

General		
Bore	105 mm	4.13 in
Stroke	127 mm	5 in
Displacement	4.4 l	269 in ³
Aspiration	Turbocharged aftercooled	
Rotation from Flywheel End	Anti-clockwise	
Combustion System	Direct injection	
Compression Ratio	18.2:1	
Cooling System	Liquid	
Cycle	4 stroke	
Number of Cylinders	4 inline	

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Total Coolant Capacity	7 l	1.9 gal (US)
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Engine Dimensions*		
Dry Weight	306 kg	674.6 lb
Height	810 mm	32 in
Length	663 mm	26.1 in
Width	620 mm	24.4 in

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.

Technical Information

Air inlet system

- Cast iron exhaust manifold – centre side outlet

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- 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

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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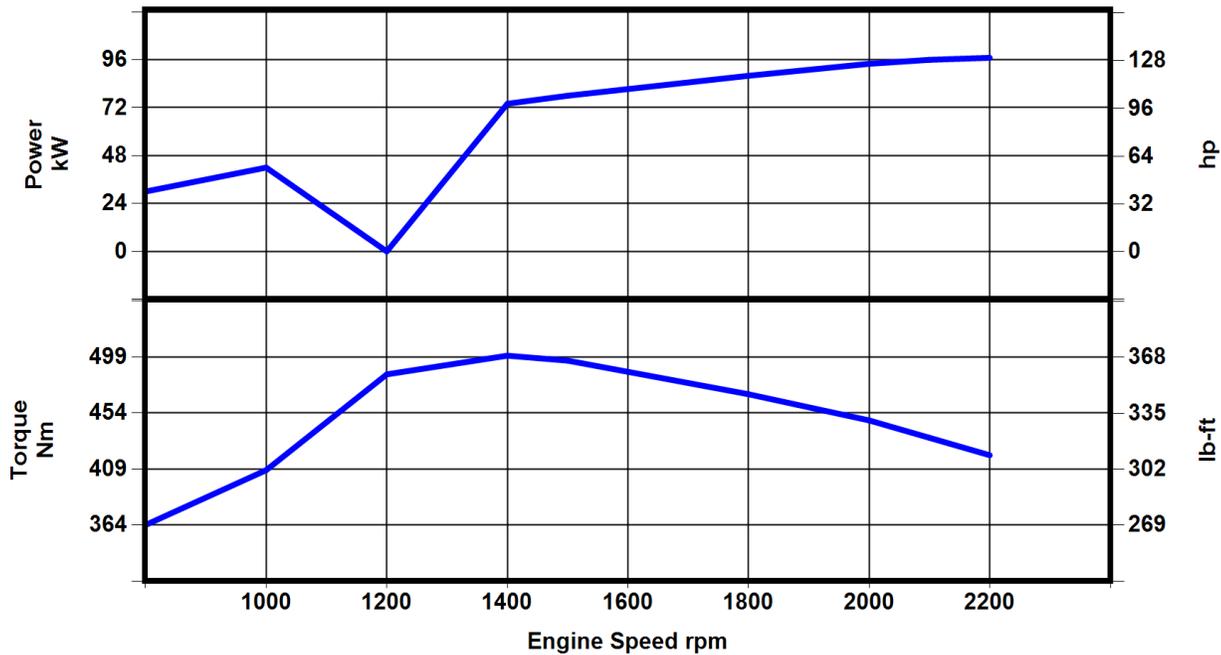
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1100 Series 1104C-44TA INDUSTRIAL ENGINE

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

78.0-97.0 kW / 105-130 hp



Power kW	Power hp	Rated Speed (rpm)	Torque Nm	Torque lb-ft	Speed (rpm)	Rating Type
78.0	105	2300	410	303	1400	Industrial C intermittent rating
78.5	105	2200	410	303	1400	Industrial C intermittent rating
78.5	105	2400	410	303	1400	Industrial C intermittent rating
80.0	107	2200	418	308	1400	Industrial C intermittent rating
80.0	107	2300	418	308	1400	Industrial C intermittent rating
80.5	108	2400	400	295	1400	Industrial C intermittent rating
80.5	108	2400	418	308	1400	Industrial C intermittent rating
82.5	111	2200	460	339	1400	Industrial C intermittent rating
85.0	114	2200	468	345	1400	Industrial C intermittent rating
85.5	115	2200	479	354	1400	Industrial C intermittent rating
87.0	117	2200	491	362	1400	Industrial C intermittent rating
88.5	119	2200	440	325	1400	Industrial C intermittent rating
89.0	119	2300	440	325	1400	Industrial C intermittent rating

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

78.0-97.0 kW / 105-130 hp

89.0	119	2200	499	368	1400	Industrial C intermittent rating
90.5	121	2200	448	331	1400	Industrial C intermittent rating
91.0	122	2300	434	320	1400	Industrial C intermittent rating
91.0	122	2300	448	331	1400	Industrial C intermittent rating
92.0	123	2000	492	363	1400	Industrial C intermittent rating
93.5	125	2100	492	363	1400	Industrial C intermittent rating
94.0	126	2000	500	369	1400	Industrial C intermittent rating
95.0	127	2200	492	363	1400	Industrial C intermittent rating
95.5	128	2100	500	369	1400	Industrial C intermittent rating
97.0	130	2200	500	369	1400	Industrial C intermittent rating

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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