

# 400 Series 403D-15 Industrial

25.1 kW / 33.7 hp @ 3000 rpm

The Perkins® 400D range has been developed in consultation with our marketplace. This 1.5 litre, 3 cylinder engine complements the exciting 400 Series product line-up, offering customers a choice of compact, lightweight power units whilst maintaining all the customer benefits they can experience from other products in the range.

The 400 Series engine family continues to set new standards in the compact engine market. Developed alongside customers to fulfil their needs in the construction, materials handling, agricultural/turf, genset and compressor markets, it is another class leading diesel range from Perkins.

Built to the most demanding standards, the 400D engines meet all the requirements of the off-highway emissions legislation for Stage IIIA and MLIT Step 4.

Long 500 hour service intervals, a two-year standard warranty, low noise and harshness, and a wide range of options make the 400 Series range the complete solution for compact power needs.

The 403D-15 is a very quiet 1.5 litre unit delivering impressive performance and reduced operating costs in a small, efficient package ideal for a range of off-highway applications.



## Ultra-compact power

- Up to 25.1 kW (33.7 hp) from an engine envelope of 0.16 cubic metres (5.6 cubic ft)
- Coolant temperature of 112°C allows reduction in radiator sizes

## Clean and quiet

- Noise levels have been kept to a minimum
- Subjective harshness has been carefully controlled making the engine sound even quieter

## Durable power

- Product design and process improvements enhance both engine reliability and durability
- A new improved (advanced) governor, valve seat inserts, and new compliance testing deliver reliability of 6,000 hours
- A standard two-year warranty demonstrates our confidence in durability and reliability

## Low operating costs

- Approved for operation on biodiesel\* concentrations of up to 20%
- Oil and filter changes are 500 hours, dependent on load factor

- Engine durability and reliability, the warranty offering, and ease of installation combine to drive down the cost of ownership

## Product support

- With highly trained Perkins distributors in thousands of communities in over 180 countries, you are never far away from expert product knowledge, genuine parts and a range of advanced diagnostic technology for keeping your engine in peak condition
- **Warranties and Service Contracts**

We provide one-year warranties for constant speed engines and two-year warranties for variable speed models, as standard. These are supported by multilevel Extended Service Contracts that can be bought additionally

[Discover more](#)

[www.perkins.com](http://www.perkins.com)

[www.perkins.com/esc](http://www.perkins.com/esc)

[www.perkins.com/distributor](http://www.perkins.com/distributor)

[To find your local distributor](#)

Performance Data	Gross Intermittent (ISO/TR 14396)	Speed rpm
Power Output (kW)	25.1	3000
Power Output (hp)	33.7	3000
Peak Torque (Nm)	96.0	1800
Peak Torque (lbf-ft)	70.8	1800

Power output for a run-in engine after 60 hours.

\*Subject to conformance with ASTM D6751 and EN14214.

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

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

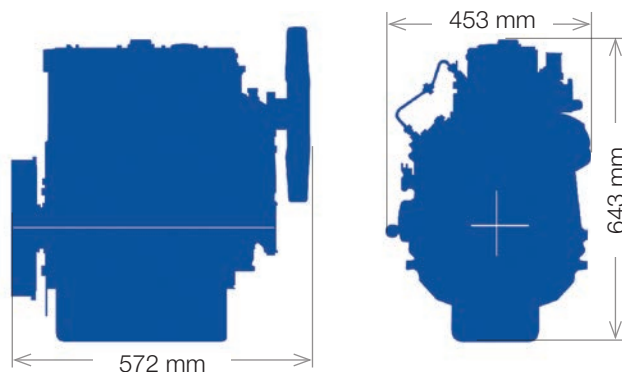
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 **Perkins®**

THE HEART OF EVERY GREAT MACHINE

# 400 Series 403D-15 Industrial

25.1 kW / 33.7 hp @ 3000 rpm



## Engine specification

- Cast iron engine block
- Flywheel and flywheel housing
- CTD fuel injection pump
- Spin on fuel filter
- Glow plug starting aid
- Lub oil sump
- Spin on lub oil filter
- Inlet manifold
- Cast iron exhaust manifold – side outlet
- Coolant pump belt driven
- Choice of cooling fans
- Starter motor 12 volt and 24 volt
- Alternator 12 volt and 24 volt
- ESOS (Electric shut-off solenoid)
- Lub oil pressure switch
- Coolant temperature switch
- SAE A PTO
- Cold start to  $-20^{\circ}\text{C}$  (aided)
- High and low fan position
- Electronic controlled governing as an option

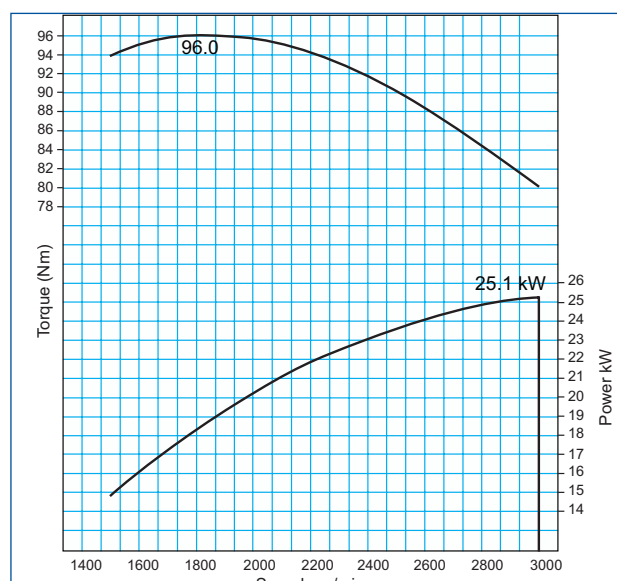
## Option groups

A selection of optional items is available to enable you to prepare a specification precisely matched to your needs.

## Emissions statement

**Industrial and IOPU Engines:** Certified against the requirements of EU Stage IIIA (Directives 97/68/EC as last amended, and 2004/26/EC, as last amended).

**Constant Speed engines for use in Industrial, IOPU and ElectropaK applications:** Certified against the requirements of EU Stage IIIA (Directive 97/68/EC, as last amended for mobile applications).



Lower speed ratings cannot be read from this curve.

## Engine data

Number of cylinders .....	3 in-line
Bore and stroke .....	84 x 90 mm (3.3 x 3.5 in)
Displacement .....	1.496 litres (91.0 cubic in)
Aspiration .....	Naturally aspirated
Cycle .....	4 stroke
Combustion system .....	Indirect injection
Compression ratio .....	22.5:1
Rotation .....	Anti-clockwise viewed on flywheel
Cooling system .....	Liquid
Total lubrication capacity .....	6 litres (1.5 US gals)
Total coolant capacity .....	2.6 litres (0.6 US gals)
Dimensions	
Length .....	572 mm (22.5 in)
Width .....	453 mm (17.9 in)
Height .....	643 mm (25.3 in)
Dry weight .....	149 kg (328 lb)
Final weight and dimensions will depend on completed specification.	

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