



# 400 Series

## Compact Industrial and Construction Power

### 404C-22T

44.7 kW/60 bhp



The 400 Series compact engine family is a significant evolution of the very successful 100 Series. It has been developed alongside customers to fulfil their needs in the construction, materials handling, agricultural/turf, genset and compressor markets, becoming the latest class-leading diesel range from Perkins.

Built to the most demanding standards, the 400 series engines meet all the requirements of EC Stage 2 and USA EPA Tier 2 off-highway emissions legislation for 2004 and bring significant improvements over their predecessors.

The 404C-22T is a powerful but quiet 2.2 litre turbocharged unit delivering impressive performance with low operating costs in a small efficient package ideal for a range of off-highway applications

#### Originality

The 404C-22T hits a completely new power node for the Perkins range. Developed in consultation with our market place, this 2.2 litre turbocharged engine increases the power range offered by the 400 Series to 44.7 kW or 60 bhp, meaning you can do more with your 400 Series than ever before.

#### Clean and Quiet

In addition to its emissions performance, the full-load smoke emissions levels of the 404C-22T are invisible to the naked eye (below 2 Bosch). As with the other engines in the 400 Series range, noise levels have been kept to a minimum and subjective harshness has also been controlled, making the engine sound even quieter.

#### Durable and Reliable

Product design and process improvements have been implemented to enhance both engine reliability and durability. A new governor, valve seat inserts and new compliance testing have been introduced to deliver reliability and 6000 hours durability. Our Standard warranty offering, at two years, demonstrates our confidence in the 404C-22T's durability and reliability.

#### Compact fit

The neatly installed side mounted turbocharger position provides additional power with minimum impact on package size making fitment into machines easier.

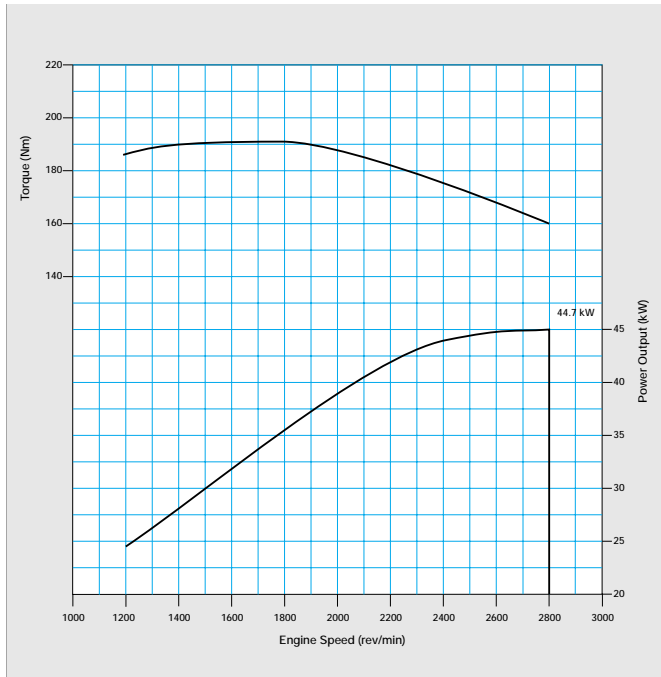
#### Low operating costs

Oil and filter changes are now set at 500 hours as standard. This coupled with the warranty offering, durability and product reliability continues to drive down the cost of ownership. Total worldwide service is provided through a network of 4000 distributors and dealers supporting you wherever, whenever you need it.

| Performance Data     | Gross Intermittent ISO/TR 14396 | Speed rev/min |
|----------------------|---------------------------------|---------------|
| Power Output (kW)    | 44.7                            | 2800          |
| Power Output (bhp)   | 60                              | 2800          |
| Power Torque (Nm)    | 192                             | 1800          |
| Peak Torque (lbf ft) | 141.6                           | 1800          |

Power output for a run-in engine after 60 hours  
Photographs are for illustrative purposes only and may not reflect final specifications

# 400 Series 404C-22T



Note: lower speed ratings cannot be read off this curve.

## Engine Specification

- Cast iron engine block
- Flywheel and flywheel housing
- 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
- Starter motor 12 volt
- Alternator 12 volt 55 Amp.
- E S O S
- Lub. oil pressure switch
- Coolant temperature switch
- Provision for PTO
- Choice of cooling fans



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All information in this document is substantially correct at the time of printing but may be altered subsequently by the Company



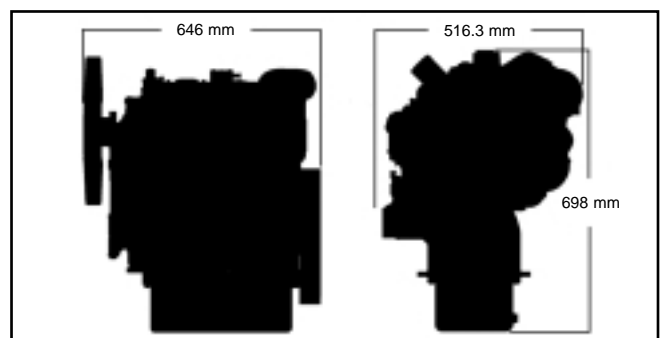
## Option Groups

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

## General Data

|                            |                                  |
|----------------------------|----------------------------------|
| <b>Bore and stroke</b>     | 84mm x 100mm                     |
| <b>Number of cylinders</b> | 4 in-line                        |
| <b>Cubic capacity</b>      | 2.2 litres (134 cu.in.)          |
| <b>Cycle</b>               | 4 Stroke                         |
| <b>Aspiration</b>          | Turbocharged                     |
| <b>Combustion system</b>   | Indirect injection               |
| <b>Compression ratio</b>   | 23:3:1                           |
| <b>Engine rotation</b>     | Anticlockwise viewed on flywheel |
| <b>Governing</b>           | All speed mechanical             |
| <b>Cooling system</b>      | Pressurised water                |
| <b>Length</b>              | 646mm (25.5 in)                  |
| <b>Width</b>               | 516.3mm (20.3 in)                |
| <b>Height</b>              | 698mm (27.5 in)                  |
| <b>Dry weight</b>          | 194kg (427.7 lb)                 |

Overall dimensions and weights will depend on final specification



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