

800 Series

Agricultural, Construction and Industrial Power Units

804C-33T

**53 kW / 71 bhp
60 kW / 80.5 bhp**

A tough turbocharged 3.3 litre, 4 cylinder direct injection diesel for the new generation of more compact agricultural and construction equipment, compressors, material handlers and other industrial applications.

In introducing the 800 Series of engines, Perkins has responded to market demands, blending high technology with experience to provide best value, clean engines. For the user, the benefits are lower running costs and better performance. For the manufacturer, class-leading compact packaging, higher power take-off and excellent performance provide solutions to help them meet their market needs.

Quiet Clean power

Retaining cost and packaging benefits, the 804C-33T is operator friendly and environmentally sensitive. Running at very low levels of smoke this engine also operates to a level of gaseous emissions beyond what is required for Stage 2 off-highway regulations - worldwide.

800 Series engines benefit from a tuned mechanical structure, two-stage injection and a turbo softened combustion. Together, these features provide low levels of bare engine noise.

High performance, productive power

Along with turbocharged power, high torque and 20% torque back-up, 800 Series engines also provide a class leading power take-off capability.

Cost efficient power

Thanks to Perkins mastery of air control and its re-entrant direct injection system, clean combustion has not been at the expense of fuel consumption, with SFC as low as 220 g/kWh. Service intervals for oil and filters are at 500 hours and all service points are conveniently placed on the left-hand side, for easy accessibility. Fuel filter replacement at 1,000 hours.

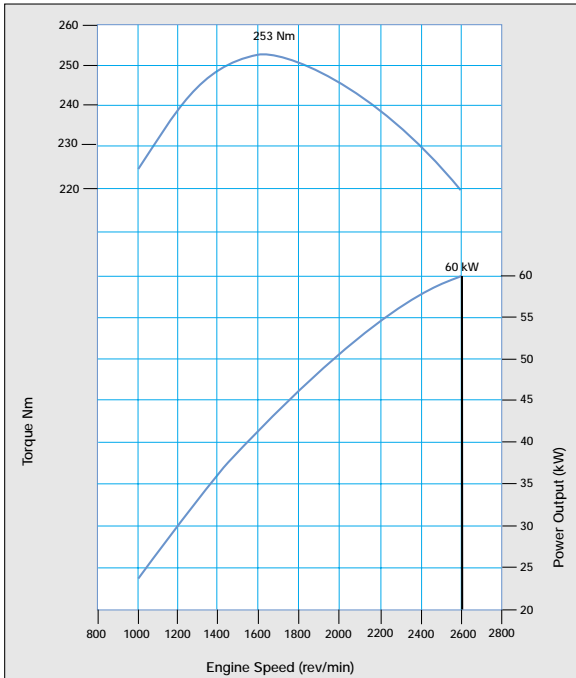
Reliable and durable power

Perkins traditional values of exceptional reliability and durability are vested in the 800 Series range. Manufactured to standards which are customer approved and recognised internationally (ISO 9000). These engines will provide daily reliability and over 8,000 productive hours operation before the need for overhaul should become necessary.

Performance Data	Gross Intermittent ISO/TR 14396		Speed rev/min
Power Output (kW)	53	60	2600
Power Output (bhp)	71	80.5	2600
Peak Torque (Nm)	235	253	1600
Peak Torque (lbf ft)	173	187	1600

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

800 Series 804C-33T



Lower speed ratings may not be read from this curve.

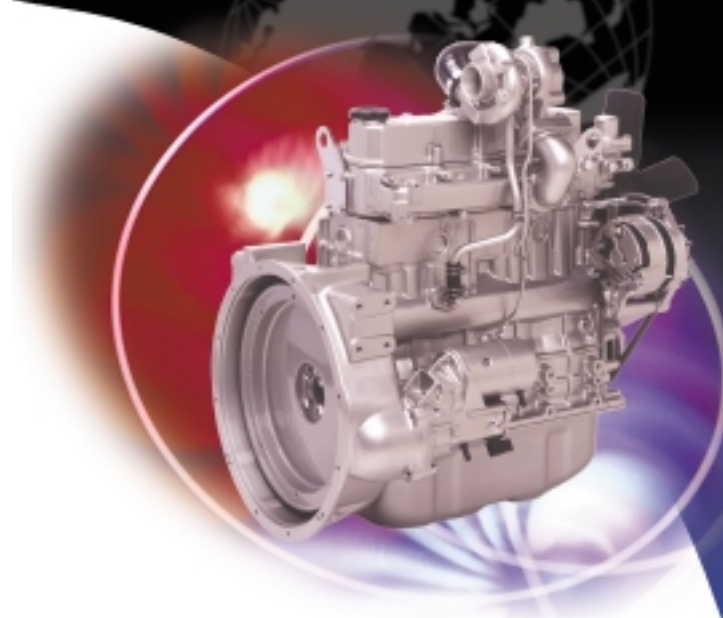
Engine Specification

Cast iron engine block and cylinder head
 Flywheel and flywheel housing
 Ecoplus fuel filter, spin-on oil filter
 Glow plugs for cold starting down to -20°
 Cast iron one-piece exhaust manifold
 Belt-driven coolant pump
 12 volt alternator
 Provision for PTOs
 Choice of cooling fans
 12 volt starter motor
 Choice of turbo position
 Two oil fill positions: front and top cover
 Lub oil pressure switch 12V
 Inlet manifold
 Turbocharger and crossover pipe



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



General Data

Bore and stroke	94 mm x 120 mm
Number of cylinders	4 in-line vertical
Cubic capacity	3.3 litres
Cycle	4 stroke
Aspiration	Turbocharged
Combustion system	Direct injection
Compression ratio	19:1
Engine rotation	Anti-clockwise, viewed on the flywheel
Fuel injection equipment	Denso EPVE
Governing	All speed mechanical
Cooling system	Liquid
Power take-off	27 kW with drive ratio 1:1, from SAE 'A' flange on RHS of timing case.
Length	781 mm
Width	649 mm
Height	769 mm
Dry weight	250kg

Dimensions and weight will depend on final specification.



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