

KEY FACTS

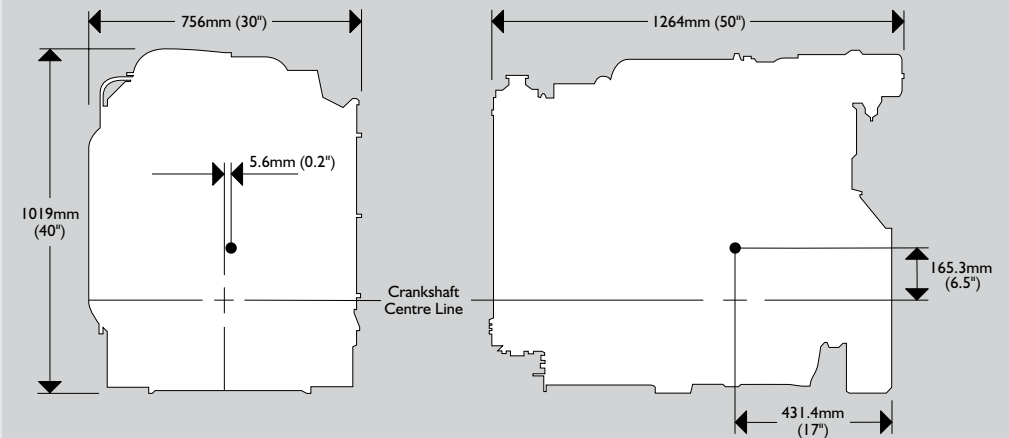
Efficient combustion process has lead to no aftertreatment requirements

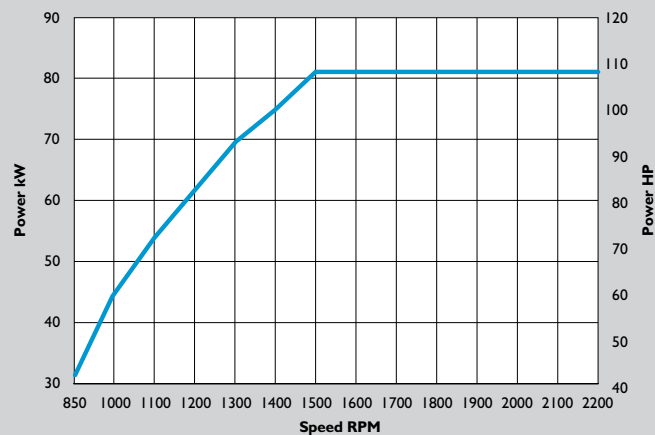
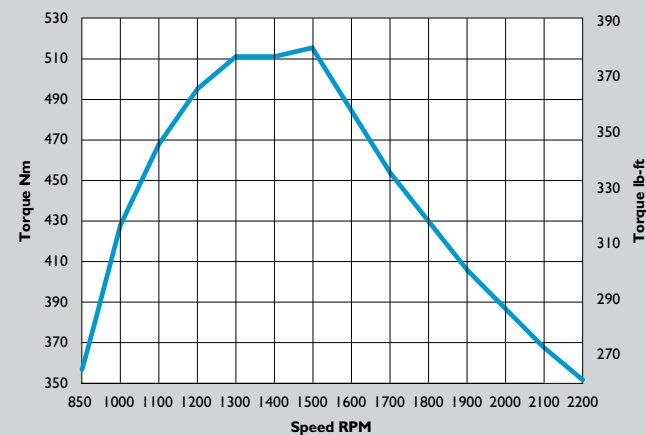
Heavy duty engine with common customer installation interface points across the product family

Supported by Global Distributor and Dealer Network

GENERAL TECHNICAL DATA

Model		444 TA4i-81
Maximum rating (gross intermittent)	kW (hp)	81 (108)
Thermodynamic cycle		Diesel 4 stroke
Aspiration		TCAE
Arrangement		4 cylinder
Emissions level		Stage IIIB / Tier 4 Interim
Bore	mm (in)	103 (4.06)
Stroke	mm (in)	132 (5.20)
Total displacement	cm ³ (in ³)	4399 (269)
Valves per cylinder		4
Injection system		Common Rail
Cooling		Liquid
Direction of rotation (viewed from crank nose)		Clockwise
Dry weight	kg (lbs)	630 (1389)
Rated speed	rpm	2200
Peak torque	Nm (lb-ft)	516 (380)
Peak torque speed	rpm	1500
Maximum no load governed speed	rpm	2371
Nominal idling speed	rpm	850
Minimum starting temperature without auxiliaries	°C (°F)	-12 (10.4)
Gradability - continuous	degrees	35
Gradability - intermittent	degrees	45


DIMENSIONS


POWER CURVE

TORQUE CURVE

STANDARD CONFIGURATION

Flywheel housing	SAE3
Intake manifold location	Left hand forward*
Exhaust manifold / turbocharger location	Right hand rearward*
Turbocharger	Variable geometry turbocharger
Fan drive ratios	0.85:1, 1:1, 1.16:1 or 1.25:1
Distance between fan - crankshaft centres	mm (in) 262 (10.3)
Fuel filter	Engine mounted
Fuel lift pump	Pre-filter with primary pump and WIF sensor
Oil filter	Single, vertical - LHS*
Oil sump	Pressed steel
Breather system	Open
Oil cooler	Left hand side*
Oil filler position	Top and left hand side*
Starter motor	12V, 4.2kW/24V, 4kW
Alternator	12/24V, 55A or 100A
Power Take-off: Heavy Duty	60kW, 205Nm, 1.268:1 RHS
Power Take-off: Light Duty	15kW, 40Nm, 1.625:1 LHS
Finish	Lacquered

*Orientation from flywheel.

OPTIONS

Extensive range of configuration options available - contact local JCB Power Systems distributor, or JCB Power Systems sales and applications department for availability and configuration options.

For more information on purchasing a JCB engine or configuration of a bespoke product for your requirements contact a JCB Power Systems distributor.