

KEY FACTS

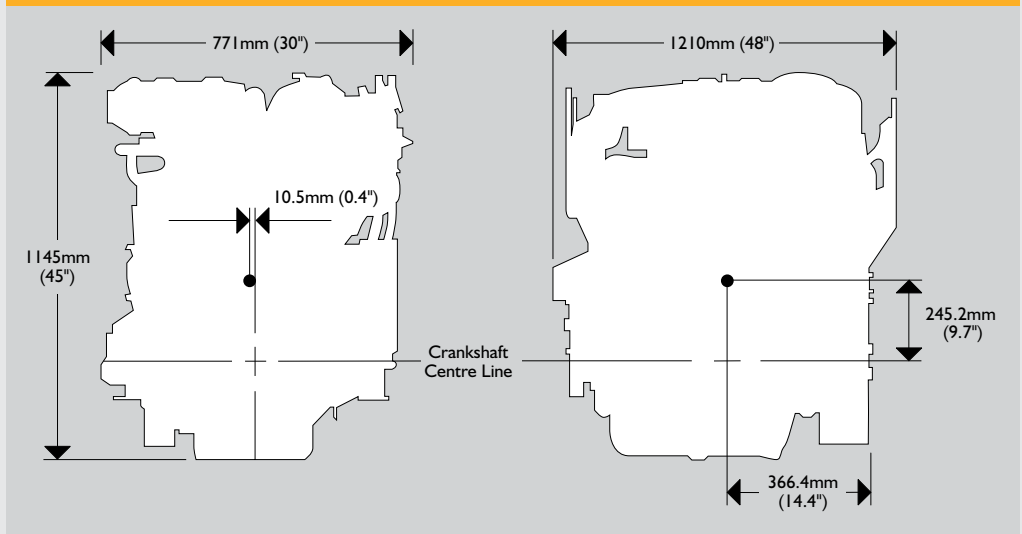
Efficient combustion process has lead to minimum aftertreatment requirements

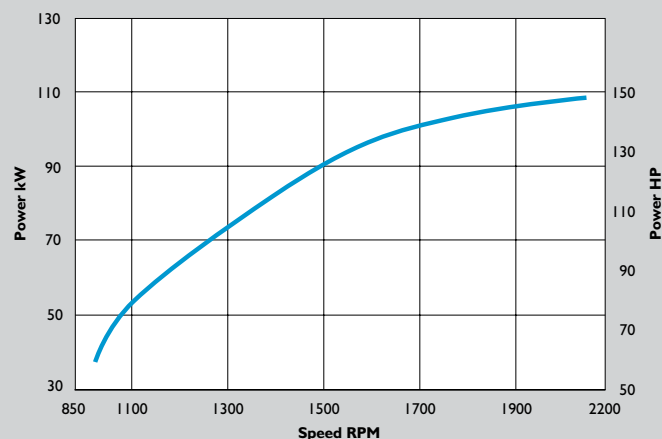
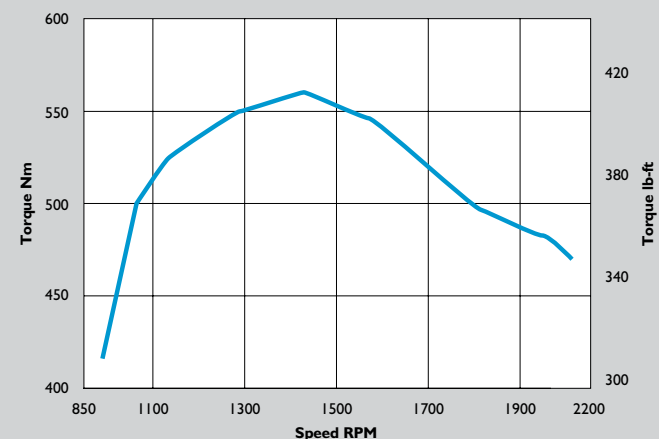
Heavy duty engine with common customer installation interface points across the product family

Supported by Global Distributor and Dealer Network

GENERAL TECHNICAL DATA

Model		444 TA4-108
Maximum rating (gross intermittent)	kW (hp)	108 (145)
Thermodynamic cycle		Diesel 4 stroke
Aspiration		TCAE
Arrangement		4 cylinder IPU
Emissions level		Stage IV / Tier 4
Bore	mm (in)	106 (4.18)
Stroke	mm (in)	135 (5.31)
Total displacement	cm ³ (in ³)	4765 (292)
Valves per cylinder		4
Injection system		Common Rail
Cooling		Liquid
Direction of rotation (viewed from crank nose)		Clockwise
Dry weight	kg (lbs)	730 (1609)
Rated speed	rpm	2200
Peak torque	Nm (lb-ft)	538 (396.8)
Peak torque speed	rpm	1500
Maximum no load governed speed	rpm	2450
Nominal idling speed	rpm	850
Minimum starting temperature without auxiliaries	°C (°F)	-12 (10.4)
Gradability - continuous	degrees	35
Gradability - intermittent	degrees	45


DIMENSIONS


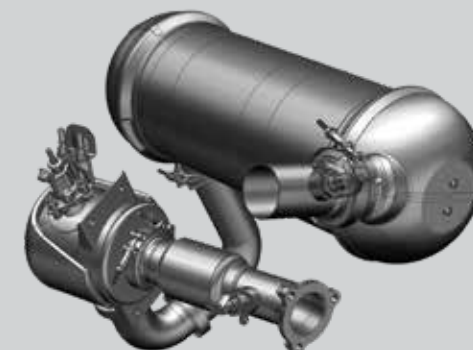
POWER CURVE

TORQUE CURVE

STANDARD CONFIGURATION

Flywheel housing		SAE3
Intake manifold location		Left hand forward*
Exhaust manifold / turbocharger location		Right hand rearward*
Turbocharger		Wastegate controlled variable
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) or 356 (14.0)
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.

EMISSIONS CONTROL SOLUTIONS


DEF tank



SCR

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.

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