



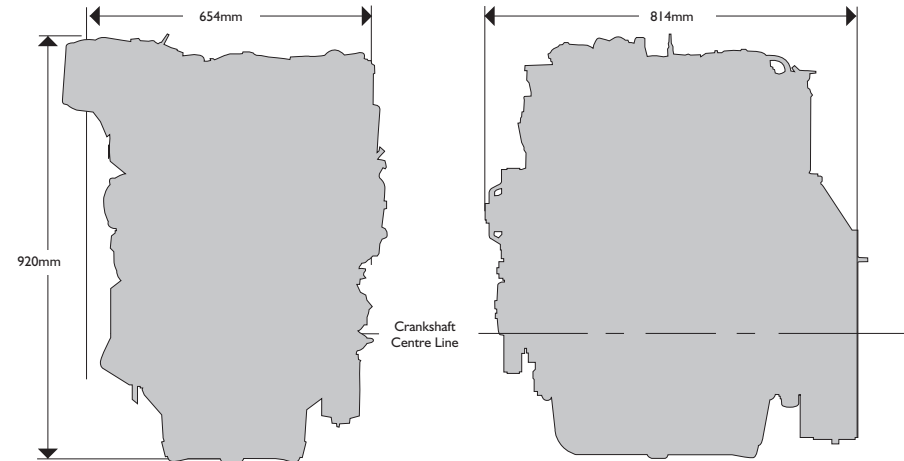
JCB DIESELMAX

ECOMAX

JCB DIESELMAX ECOMAX TIER 4 ENGINE 55kW 444



MOBILE MACHINERY



GENERAL TECHNICAL DATA

		55kW
Thermodynamic cycle		Diesel 4 stroke
Air intake		TCAE
Arrangement		In-line 4 cyl.
Bore	mm	103
Stroke	mm	132
Swept volume	cm ³	4399
Mean piston speed at rated speed	m/s	9.68
Valves per cylinder		4
Cooling		Liquid
Direction of rotation (viewed from crank nose)		Clockwise
Compression ratio		16.7

		55kW
Rotational mass moment of inertia excluding flywheel.	kgm ²	0.2255
Standard flywheel inertia	kgm ²	0.4061
Maximum rating *(intermittent)	kW	55
Rated speed	rpm	2200
Maximum torque	Nm	400
Maximum torque speed – constant	rpm	1200-1300
Maximum no load governed speed	rpm	2450
Nominal idling speed	rpm	850
BMEP at maximum torque	bar	11.4
BMEP at rated speed	bar	6.8
Minimum starting temperature without auxiliaries	°C	-20

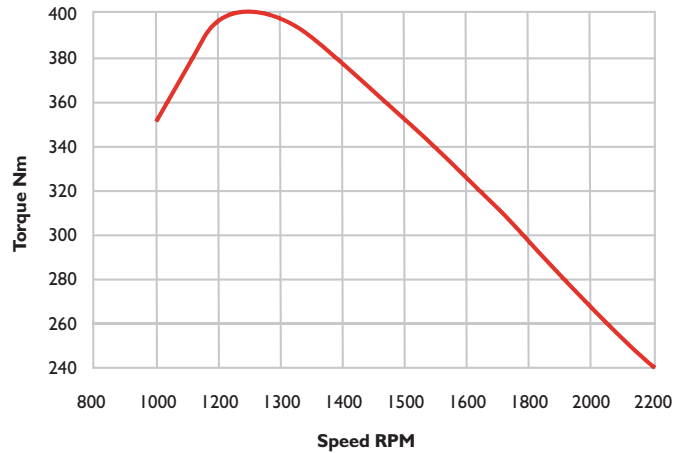
*As per ISO 14396 (nett power without fan)



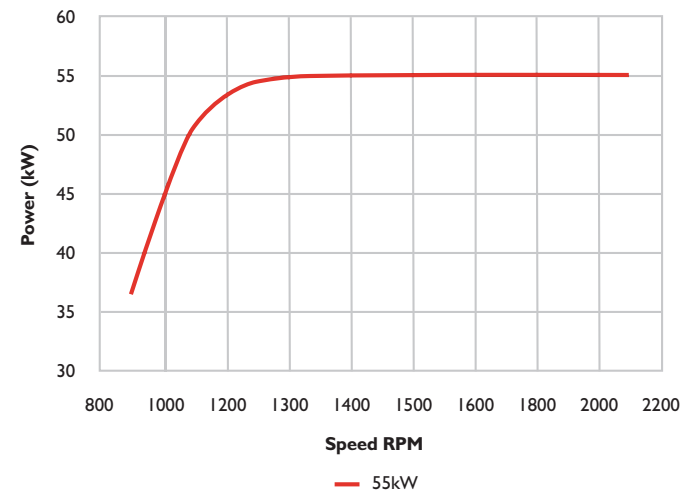
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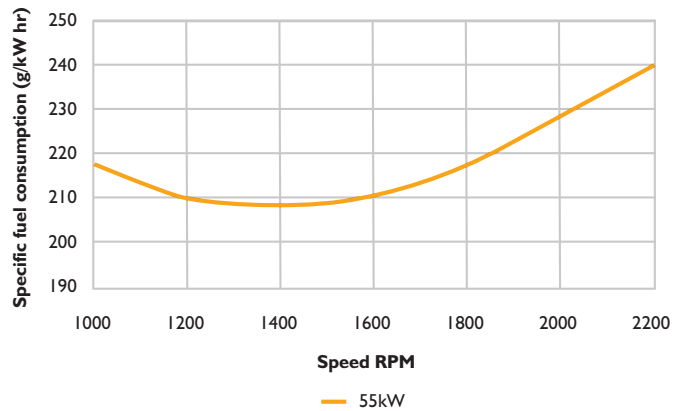
TORQUE CURVES



POWER CURVES



FUEL CONSUMPTION



- Low cost of ownership
- Constant power 55kW Tier 4 Final
- Improved response compared to Tier 3
- Packaging benefits
- Fuel consumption 5-10% improvement over Tier 3

