



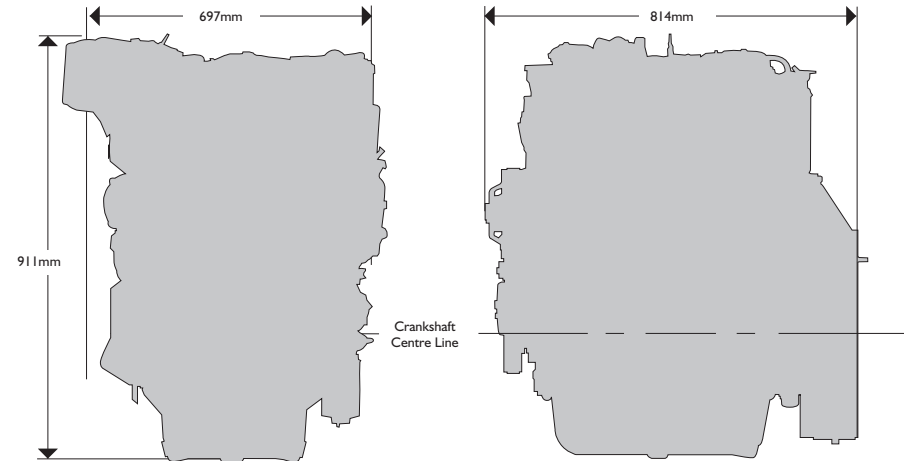
JCB DIESELMAX

ECOMAX

JCB DIESELMAX ECOMAX TIER 4 ENGINE 108kW, 129kW 448



MOBILE MACHINERY



GENERAL TECHNICAL DATA

		108kW	129kW
Thermodynamic cycle		Diesel 4 stroke	Diesel 4 stroke
Air intake		TCAE	TCAE
Arrangement		In-line 4 cyl.	In-line 4 cyl.
Bore	mm	106	106
Stroke	mm	135	135
Swept volume	cm ³	4765	4765
Mean piston speed at rated speed	m/s	9.90	9.90
Valves per cylinder		4	4
Cooling		Liquid	Liquid
Direction of rotation (viewed from crank nose)		Clockwise	Clockwise
Compression ratio		16.9	16.9

		108kW	129kW
Rotational mass moment of inertia excluding flywheel.	kgm ²	0.2444	0.2444
Standard flywheel inertia	kgm ²	0.4061	0.4061
Maximum rating *(intermittent)	kW	108	129
Rated speed	rpm	2200	2200
Maximum torque	Nm	560	690
Maximum torque speed	rpm	1500	1500
Maximum no load governed speed	rpm	2450	2450
Nominal idling speed	rpm	850	850
BMEP at maximum torque	bar	14.8	18.2
BMEP at rated speed	bar	12.4	14.8
Minimum starting temperature without auxiliaries	°C	-20	-20

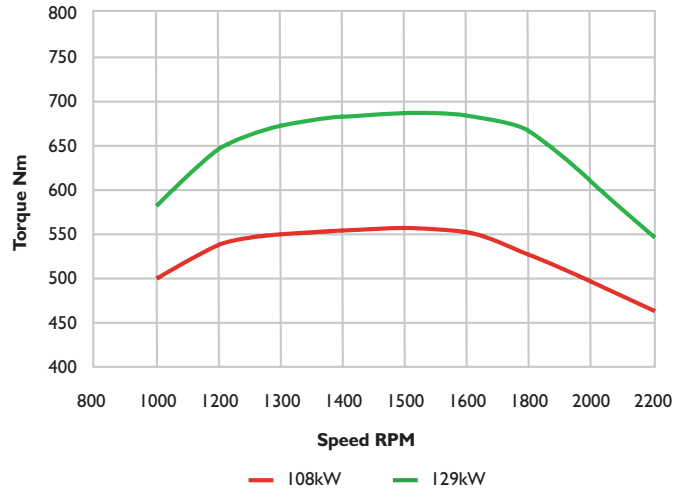
*As per ISO 14396 (nett power without fan)



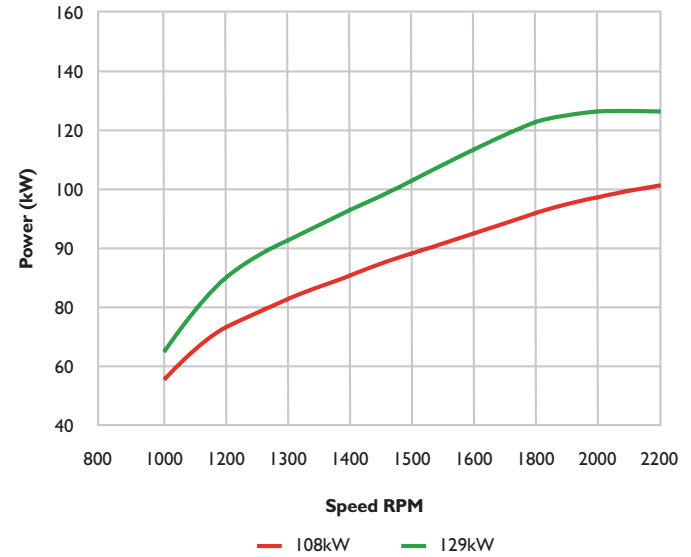
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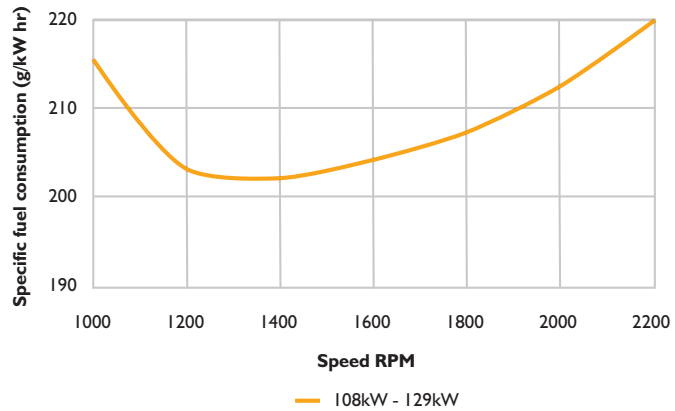
TORQUE CURVES



POWER CURVES



FUEL CONSUMPTION



- Low cost of ownership
- 108kW – 129kW 4.8L Tier 4 Interim
- Improved response compared to Tier 3
- Packaging benefits
- Fuel consumption 5-10% improvement over Tier 3

