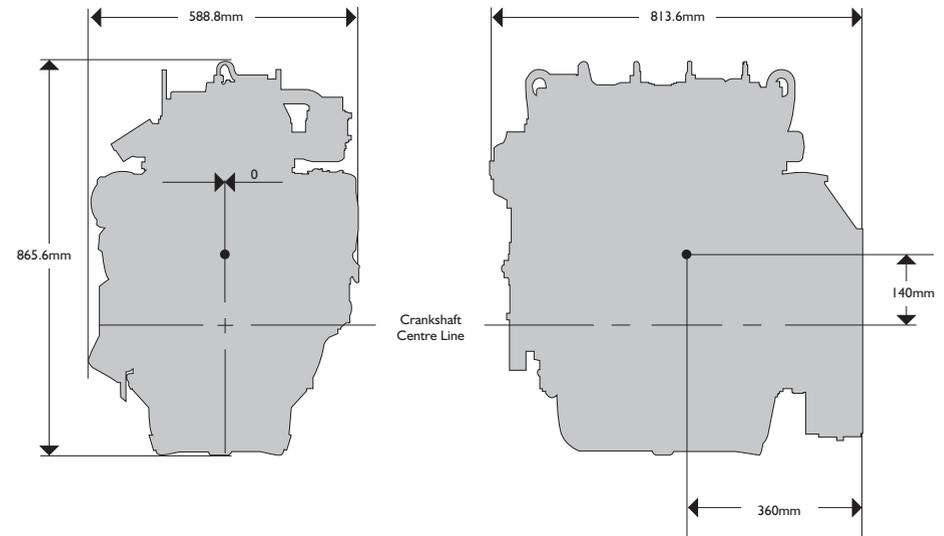


MOBILE MACHINERY

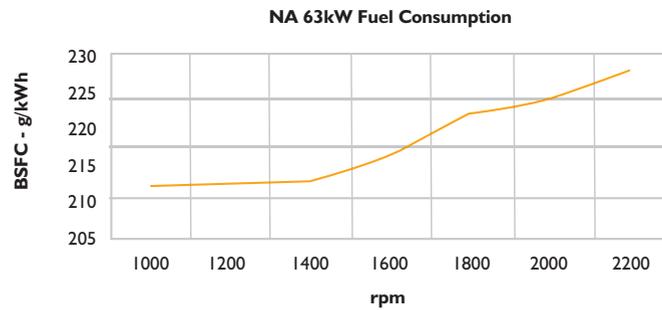


GENERAL TECHNICAL DATA

Technical Code		NA – 63kW			NA – 63kW
Thermodynamic Cycle		Diesel 4 stroke	Maximum rating* (gross intermittent)	kW	63
Air intake		NA	At speed	rpm	2200
Arrangement		4.4L	Maximum torque	Nm	320
Nominal Bore	mm	103	At speed	rpm	1200
Stroke	mm	132	Maximum no load governed speed	rpm	2390
Total displacement	cm ³	4399	Nominal idling speed	rpm	800
Valves per cylinder		4	Mean Piston speed at rated speed	m/s	9.68
Cooling		Liquid	BMEP at maximum torque	bar	9.14
Direction of rotation (viewed from crank nose)		Clockwise	Emission Certification – EPA T2, EU Stage 2		EPA TII, EU St2
Compression ratio		18.6:1	Best point specific fuel consumption	g/kWhr	204
Rotational mass moment of inertia excluding flywheel.	kgm ²	0.2255	Minimum full load specific fuel consumption	g/kWhr	212.5
Standard flywheel inertia	kgm ²	0.4061	Noise at maximum rating	dBA 1m	89
			Minimum starting temperature without auxiliaries	°C	-12
			Dry weight	kg	450



FUEL CONSUMPTION

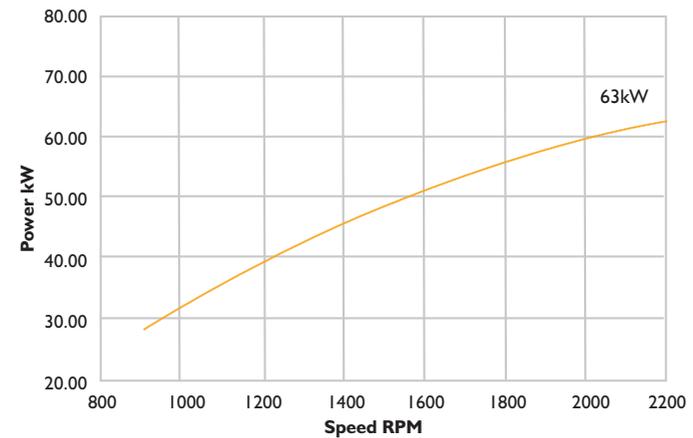
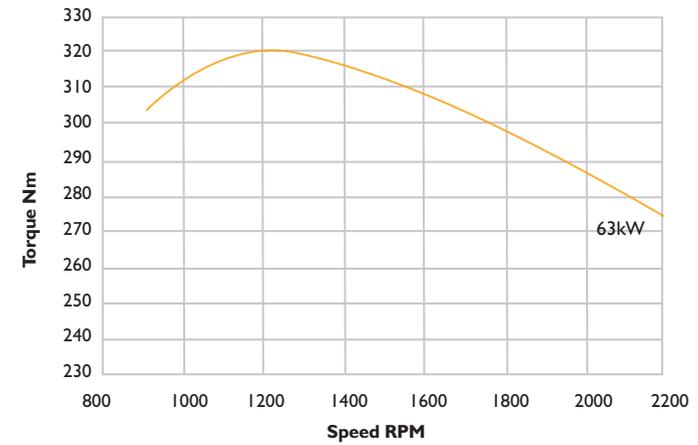


Fuel consumption with fuel at 40°C pump inlet, at full load.

FUEL SYSTEM

		NA - 63kW
Injection system		Rotary Mechanical
Fuel maximum intake restriction	mbar	100
Fuel maximum intake temperature	°C	50
Engine Pre Filter	Micron	30
Engine Main Filter	Micron	5

POWER AND TORQUE CURVES



Fuel stop power (gross intermittent) shown.
Performance measured according to ISO 14396 after 50 hours running without fan.



EXHAUST SYSTEM

		NA – 63kW
Maximum allowable back pressure	mbar	150
Maximum exhaust temperature at full rated speed	°C	671
Exhaust flow at maximum output	kg/h	302

ELECTRICAL SYSTEM

		NA – 63kW
Type (ETR - Energised To Run)		Negative Ground, ETR
Standard (Starter & Alternator)	V	12
Option.	V	24
Minimum Cranking Speed	rpm	100
Battery – minimum capacity recommended, not included		145Ah.
Battery – minimum cold cranking capacity recommended, not included		850 CCA

LUBRICATION SYSTEM

		NA – 63kW
Lubricating oil pressure	bar	4.6
Maximum oil temperature at full rated speed: continuous.	°C	125
Maximum oil temperature at full rated speed: intermittent.	°C	135
Engine angularity limits in continuous operation:		
Maximum front up and front down	deg	35
Maximum right hand and left hand	deg	35
Total system capacity – including pipes, filters etc	Ltrs	14
Minimum recommended oil grade	API	CF4
Oil filter maintenance service schedule	Hours	500
Oil consumption at maximum rating	% of fuel consumption	0.1

AIR INDUCTION

		NA – 63kW
Maximum allowable air intake restriction with clean air filter	mbar	25
Maximum allowable restriction with dirty air filter	mbar	85
Air requirement for combustion at 100% rated speed	g/s	81
Turbocharging pressure at full rated speed	bar	–
Turbocharging air maximum temperature - engine inlet	°C	–
Cooled charge air at inlet manifold	°C	–
Heat rejected to intercooler at maximum power	kW	–
Intercooler system max pressure drop	mbar	–

COOLING SYSTEM

		NA – 63kW
Coolant capacity – Engine only	Ltrs	7
Water pump flow at rated speed	ltr/min	200
Heat to reject by heat exchanger at maximum power	kW	42.9
Thermostat Temperature	°C	90
Cooling liquid maximum temperature	°C	110
Minimum and Maximum pressure in the cooling circuit	kPa (bar)	1 bar max - min
Coolant Specification Approved (JCB HP High Performance)		ASTM D6210



STANDARD CONFIGURATION

		NA – 63kW
Flywheel housing	SAE	3
Intake manifold location		Left hand rear
Exhaust manifold/ Turbocharger location		Right hand
Turbocharger		NA
Fan transmission ratios.		0.85, 1.1, 1.16 or 1.25:1
Distance between fan – crankshaft centres	mm	262 or 356
Main Fuel Filter & Pre Filter		Included
Fuel pump		Included
Oil filter	qty	1 left side
Oil Sump		Pressed dual skin
Oil vapours blow-by circuit		Closed
Oil heat exchanger		Left side
Oil filler position		Top and left hand side
Starter motor		12v, 4.2kW.
Alternator		12v, 95A
Engine stop		Electrical
Power Take off Heavy Duty (OEM Spec)		Standard: 60kW. RHS.
Power Take off Light Duty		Standard: 10kW. LHS.
Power Take off Crank nose		Standard: 60kW.
Finish		Lacquered
Owners Manual		Included

OPTIONAL EQUIPMENT

Pusher & Puller Fans, AVM's, Hydraulic Pumps, 24 Volt Electrics, Water In Fuel Sensor.
 Grid Heater Matrix for improved cold starting.
 Flywheel Options: 10", 11", 11.5", W300, Voith and ZF.
 Long dipstick.

