

<b>General</b>						
Number of cylinders	6					
Displacement, total	7,15 liters [437 cu. in]					
Firing order	1-5-3-6-2-4					
Bore	108 mm [4,25 in]					
Stroke mm	130 [5,12 in]					
Compression ratio	17,6:1					
<b>Performance</b>		25% load	50% load	75% load	100% load	<b>Overload 110% load</b>
ISO Standard Power	116 kW [158hp]	29	58	87	116	127,6
Torque	739 Nm [546 lbf. ft]	178	360	547	739	816
Mean piston speed	6,5 m/s [21,3 ft/sec]					
Effective mean pressure	1,3 Mpa [189 psi]	0,31	0,63	0,96	1,3	1,44
Max combustion pressure	Mpa [psi]	7,1	8,1	9,4	10,7	11,2
<b>Engine noise emission</b>						
Measured sound power Lw at no load	86,5 dB(A)					
Measured sound power Lw	dB(A)	90				
<b>Unsilenced exhaust noise emission</b>						
Data calculated as sound pressure Lp. Assumed microphone distance 1m.	dB(A)	109,5				
<b>Lubrication system</b>						
Lubricating oil consumption at ISO Standard Power	liter/h [US Gal/h]	0,07				
Lubricating oil system capacity including filters	liters [US Gal]	20				
<b>Fuel system</b>						
Specific fuel consumption	g/kWh [lb/hph]	245	215	215	219	223
Total fuel flow	liter/h [US Gal/h]	375				
Feed pump pressure	kPa [in H2 O]	500				
Feed pump max suction head	m	1				
Max allowable back pressure in fuel return line	kPa [H2 O]	50				
<b>Intake system</b>						
Air consumption, (at 27oC)	m3/min [cu.ft/min]	5,55	6,05	6,75	7,65	8,1
Max permissible air intake restriction	kPa [in H2 O]	2,5				

**Exhaust system**

Heat rejection to exhaust	kW [BTU/min]	22	37,4	55,5	80	87,6
Exhaust gas temperature after turbine	oC [oF]	220	315	405	475	500
Max allowable back pressure in exhaust line	kPa [H2 O]				3	
Exhaust gas flow at Exhaust gas temperature after turbine	m3/min [cu.ft/min]	10,1	13,3	17,3	21,8	23,4

**Heat rejection the surrounding**

Heat rej. from engine to surrounding	kW [BTU/min]	3,4	4,9	6,2	8,5	9,5
--------------------------------------	--------------	-----	-----	-----	-----	-----

**Engine water circuit**

Engine water circuit capacity	14 liters [ US gal]
-------------------------------	---------------------

**Raw water circuit**

Heat rejection to raw water	kW [BTU/min]	30,3	48,2	74,0	98,0	114,1
Maximum permissible raw water temp to engine	41 oC [oF]					
Maximum temperature increase across fresh water circuit of engine	oC [oF]	6	9	13	18	20
Maximum permissible test pressure	100 kPa [402 in H2 O]					
Raw water flow	6,6 m3/h [233 cu.ft/h]					
Maximum pressure head	100 kPa [402 in H2 O]					
Highest permissible suction head	20 kPa [80,4 in H2 O]					
Highest permissible pressure drop over external raw water circuit	50 kPa [201 in H2 O]					
Raw water capacity	4 liters [1,06 US gal]					

**Power take off**

Look in technical data for propulsion

**Power Standards**

The engine performance corresponds to ISO 3046, BS 5514, DIN 6271 and in general SAE J 1349. The technical data applies to an engine operation on a fuel with calorific value of 42,7 MJ/ kg (18360 BTU/ lb) and a density of 0,84 kg/ liters (7,01 lb/ US gal, 8,42 lb/Imp gal), also where this involves a deviation from the standards.

Engine speed governor in accordance with ISO 3046/IV, class A1 and ISO 8528-5 G2 (G3 with electronic speed governor).

**Rating Guidelines**

ISO Standard Power for continuous operation with 10% overload capability for 1 hour of 12.