General						
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	19					
Performance		25% load	50% load	75% load	100% load	**Overload 110% load**
ISO Standard Power	139 kW [189 hp]	34,8	69,5	104,3	139	152,9
Torque	885 Nm [654 lbf. ft]	213	431,7	656	885	978
Mean piston speed	6,5 m/s [21,3 ft/sec]					
Effective mean pressure	1,55 MPa [189 psi]	0,4	0,8	1,2	1,6	1,7
Max combustion pressure	MPa [psi]					
Engine noise emission						
Measured sound power Lw at no load	91 dB(A)					
Measured sound power Lw	dB(A)				94	
Unsilenced exhaust noise emission						
Data calculated as sound pressure Lp. Assumed microphone distance 1m.	dB(A)				112,5	
Lubrication system						
Lubricating oil consumption at ISO Standard Power	liter/h [US Gal/h]				0,07	
Lubricating oil system capacity including filters	liters [US Gal]				20	
Fuel system						
Specific fuel consumption	g/kWh [lb/hph]	242	213	208,5	208,5	210
Total fuel flow	liter/h [US Gal/h]				375	
Maximum return flow	liter/h [US Gal/h]					
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	
Intake system						
Air consumption, (at 27oC)	m3/min [cu.ft/min]	5,6	6,5	8,0	9,83	10,5
Max permissible air intake restriction	kPa [in H2 O]				2,5	

Exhaust system						
Heat rejection to exhaust	kW [BTU/min]	24	43	65	89	98
Exhaust gas temperature after turbine	oC [oF]	225	315	375	405	420
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]	9,4	13,4	18,2	19,1	25,8
Heat rejection the surrounding						
Heat rej. from engine to surrounding	kW [BTU/min]	2	4	5	7	8
Engine cooling water circuit						
Heat rejection to water	kW	41	61	83	104	113
Maximum permissible water temp to engine	65 oC [141 oF]					
Maximum temperature increase across circuit of engine	oC [oF]	5	7	9	12	13
Thermostat, start to open	83 oC [154 oF]					
Thermostat, fully open	95 oC [176 oF]					
Maximum permissible test pressure	100 kPa [in H2 O]					
Cooling water flow at fully open thermostat	m3/h [cu.ft/h]				10,5	
Highest permissible pressure drop over external fresh water circuit	90 kPa [361 in H2 O]					
Cooling water capacity	14 liters [3,7 US gal]					
Charge air cooler circuit						
Heat rejection to water	kW	1	4	9	16	19
Maximum permissible water temp to pump	38 oC [oF]					
Cooling water capacity	10 liters [US gal]					
Cooling 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 cooling water circuit	90 kPa [361 in H2 O]					
Highest permissible pressure drop over external coolant circuit	?					

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