



GROUP	GAS	PRODUCT INFORMATION	INDEX
IC		IC-G-B-48-033	
POWER RATING			DATE
			16-08-07
			DEP.
			2

ENGINE:	SFGLD 480	SPEED:	1800
JACKET WATER TEMPERATURE(°C):	90	FUEL TYPE:	Natural Gas
INTERCOOLER WATER TEMP(°C):	55		

APPLICATION:	CONTINUOUS	COMPRESSION RATIO:	11.8:1
COOLING SYSTEM:	TWO CIRCUITS	REGULATION:	Electronic
EXHAUST MANIFOLD TYPE:	WATER COOLED	IGNITION TIMING:	10°
EMISSIONS:		MAX. BACK PRESSURE:	450 mmH2O
	NOX mg/Nm3 (8)	AMBIENT CONDITIONS ISO 3046/1:	
	450	Atmospheric pressure (kPa)=	100
	CO mg/Nm3(8)	Ambient temperature (°C)=	25
	<800	Relative humidity (%)=	30
	NMHC mg/Nm3		
	<300		

POWER RATING (4)			NOMINAL	PARTIAL LOADS		
LOAD		%	100%	80%	60%	40%
MECHANICAL POWER	(3, 4, 5)	kWb	906	725	544	362
BMEP		bar	126	101	76	5
FUEL CONSUMPTION	(1)	kW	2495	2040	1595	1135
THERMAL EFFICIENCY		%	36,3	35.5	34.1	31.9
HEAT IN MAIN WATER CIRCUIT	(1)	kW	654	555	462	350
HEAT IN SECONDARY WATER CIRCUIT	(1)	kW	255	195	144	102
HEAT IN CHARGE COOLER	(1)	kW	155	102	58	22
HEAT IN OIL COOLER	(1)	kW	100	93	86	80
HEAT IN EXHAUST GASES (25 °C)	(1)	kW	647	536	419	301
HEAT IN EXHAUST GASES (120°C)	(1)	kW	497	414	326	236
EXHAUST GAS TEMPERATURE	(1)	°C	435	445	453	461
HEAT TO RADIATION	(1)	kW	33	29	26	20

CARBURETION SETTINGS (2)						
O ₂ TO EXHAUST(DRY)(ONLY A REFERENCE)		%	8,0	7,8	7,5	7,2

MASS FLOWS						
INTAKE AIR FLOW	(1)	kg/h	4750	3830	2940	2080
EXHAUST GAS FLOW (WET)	(1)	kg/h	4940	3990	3060	2160

NOTES:
1. 100% LOAD TOLERANCES: FUEL CONSUMPTION ±5%, COOLING CIRCUIT AND EXHAUST GASES ± 15%, RADIATION ±25 EXHAUST TEMPERATURE ±20°C, MASS FLOWS ± 10%.
2. THE ENGINE PERFORMANCE DATA, TIMING ADVANCE AND CARBURETION SETTINGS ARE VALID FOR A GAS THAT FULFILS THE REQUIREMENTS DEFINED IN IC-G-D-30-001, IC-G-D-30-002 AND IC-G-D-30-003
3. NET POWER, MECHANICAL PUMPS NOT INCLUDED.
4. POWERS ARE VALID FOR AMBIENT TEMP.< 25°C AND AN ALTITUDE OF < 500m. OTHER CONDITIONS IN IC-G-B-00-001
5. OVERLOAD NOT ALLOWED
6. THE SPECIFICATIONS AND MATERIALS ARE SUBJECT TO CHANGE WITHOUT NOTIFICATION
7. A ENGINE WITH INLET OR OUTPUT RESTRICTION OVER PUBLISHED LIMITS, OR WITH INADEQUATE MAINTENANCE OR INSTALLATION CAN MODIFY POWER RATING DATA.
8. EMISSIONS ARE CORRECTED TO 5% OF O2