



GROUP	GAS	PRODUCT INFORMATION	INDEX
IC		IC-G-B-IC-002	
POWER RATING			DATE 08-02-05
			DEP. 2

ENGINE:	SFGLD 360	SPEED:	1500
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
AIR COOLER:	1 STEP	IGNITION TIMING:	15°
EXHAUST MANFOLD TYPE:	WATER COOLED	MAX. BACK PRESSURE:	450 mmH2O
EMISSIONS:	N/A	AMBIENT CONDITIONS ISO 3046/1:	
		Atmospheric pressure (kPa)=	100
		Ambient temperature (°C)=	25
		Relative humidity (%)=	30

POWER RATING (4)			NOMINAL	PARTIAL LOADS		
LOAD		%	100%	80%	60%	40%
MECHANICAL POWER	(3, 4, 5)	kWb	630	504	378	252
BMEP		bar	14	11,2	8,4	5,6
FUEL CONSUMPTION	(1)	kW	1524	1248	981	710
THERMAL EFFICIENCY		%	41,3	40,4	38,5	35,5
HEAT IN MAIN WATER CIRCUIT	(1)	kW	390	328	274	208
HEAT IN SECONDARY WATER CIRCUIT	(1)	kW	135	108	78	61
HEAT IN CHARGE COOLER	(1)	kW	66	43	18	4
HEAT IN OIL COOLER	(1)	kW	69	65	60	58
HEAT IN EXHAUST GASES (25 °C)	(1)	kW	340	281	228	167
HEAT IN EXHAUST GASES (120°C)	(1)	kW	248	209	171	126
EXHAUST GAS TEMPERATURE	(1)	°C	378	393	404	414
HEAT TO RADIATION	(1)	kW	29	26	23	21

CARBURATION SETTINGS (2)						
O ₂ TO EXHAUST(DRY)(ONLY A REFERENCE)		%	9,0	8,35	7,97	7,57

MASS FLOWS						
INTAKE AIR FLOW	(1)	kg/h	2900	2300	1810	1290
EXHAUST GAS FLOW (WET)	(1)	kg/h	3010	2390	1880	1340

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 CARBURATION SETTINGS ARE VALID FOR A GAS THAT FULFILLS THE REQUIREMENTS DEFINED IN IC-G-D-30-001 AND IC-G-D-30-002
3. NET POWER, MECHANICAL PUMPS NOT INCLUDED.
4. POWERS ARE VALID FOR AMBIENT TEMP. < 25°C AND AN ALTITUDE OF < 500m.
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 O ₂