



GROUP	GAS	PRODUCT INFORMATION	INDEX
IC		IC-G-B-24-040	1
POWER RATING		DATE	
		23-12-08	
		DEP.	2

ENGINE:	SFGLD 240	SPEED:	1500
JACKET WATER TEMPERATURE(°C):	90	FUEL TYPE:	Sewage Gas
INTERCOOLER WATER TEMP(°C):	55		

APPLICATION: COOLING SYSTEM:	CONTINUOUS TWO CIRCUITS	COMPRESSION RATIO:	11.8:1
EXHAUST MANIFOLD TYPE:	WATER COOLED	REGULATION:	Electronic
EMISSIONS:		IGNITION TIMING:	17°
		MAX. BACK PRESSURE:	450 mmH2O
NOX	mg/Nm3 (8)	500	
CO	mg/Nm3(8)	<800	
NMHC	mg/Nm3	<300	
		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)	kW/b	419	336	252	168
BMEP		bar	14	11,2	8,4	5,6
FUEL CONSUMPTION	(1)	kW	1056	868	678	489
THERMAL EFFICIENCY		%	39,7	38,7	37,2	34,3
HEAT IN MAIN WATER CIRCUIT	(1)	kW	257	220	182	140
HEAT IN SECONDARY WATER CIRCUIT	(1)	kW	110	84	60	44
HEAT IN CHARGE COOLER	(1)	kW	62	39	18	6
HEAT IN OIL COOLER	(1)	kW	48	45	42	38
HEAT IN EXHAUST GASES (25 °C)	(1)	kW	247	208	165	121
HEAT IN EXHAUST GASES (120°C)	(1)	kW	180	154	124	91
EXHAUST GAS TEMPERATURE	(1)	°C	377	391	402	412
HEAT TO RADIATION	(1)	kW	23	20	18	16
CARBURETION SETTINGS (2)						
O ₂ TO EXHAUST(DRY)(ONLY A REFERENCE)		%	8,6	8,5	8,3	8,0
MASS FLOWS						
INTAKE AIR FLOW	(1)	kg/h	2000	1620	1250	890
EXHAUST GAS FLOW (WET)	(1)	kg/h	2190	1770	1370	980

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 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

Nuevo	Cod.: C-C-3C	Elab:	ez16	Version:	8.0/28072008	1/1
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