

GenSet	60 Hz	0707	
ENGINE SPEED (rpm):	900	FUEL TYPE:	Net Gas
COMPRESSION RATIO:	10.5:1	MIN. FUEL PRESSURE (PSIG):	43
AFTERCOOLER - STAGE 1 (°F)	199	MIN. RATED METHANE NUMBER:	80
AFTERCOOLER - STAGE 2 (°F)	129	RATED ALTITUDE @ 77°F (ft):	1640
JACKET WATER OUTLET (°F)	210	FUEL LHV (BTU/SCF):	905
IGNITION SYSTEM:	CirSAS	ASSUMED GENERATOR EFFICIENCY (%):	97.0
EXHAUST MANIFOLD:	DRY	GENERATOR POWER FACTOR	0.8

RATING	NOTES	LOAD	100%	75%	50%
ENGINE POWER	(1)	bhp	4292	3219	2146
GENERATOR POWER	(2)	ekW	3105	2328	1552
ENGINE EFFICIENCY (ISO 3046/1)	(3)	%	41.4	40.4	38.8
ENGINE EFFICIENCY (NOMINAL)	(3)	%	40.4	39.4	37.9

ENGINE DATA					
FUEL CONSUMPTION (ISO 3046/1)	(3)	BTU/bhp-hr	6144	6306	6556
FUEL CONSUMPTION (NOMINAL)	(3)	BTU/bhp-hr	6293	6459	6715
AIR FLOW (@ 77°F, 14.7 psia)		scfm	10,977	8,194	5,529
AIR MASS FLOW		lb/hr	48,671	36,332	24,514
COMPRESSOR OUTLET PRESSURE		psi (abs)	35.4	27.6	19.9
COMPRESSOR OUTLET TEMPERATURE		°F	293	226	158
INLET MANIFOLD PRESSURE		psi (abs)	34.5	26.7	19
INLET MANIFOLD TEMPERATURE		°F	144	142	140
LAMBDA			2.22	2.15	2.09
TIMING		°BTDC	19.9	18.3	17.6
EXHAUST STACK TEMPERATURE		°F	731	761	811
EXHAUST GAS FLOW (@ stack temp, 14.5 psia)		ft ³ /min	26,411	20,534	14,197
EXHAUST GAS MASS FLOW		lb/hr	50,055	37,365	25,211

EMISSIONS					
NOx (as NO ₂)	(5)	g/bhp-hr	0.7	0.7	0.7
CO	(5)	g/bhp-hr	2.5	2.5	2.5
THC (molecular weight of 15.84)	(5)	g/bhp-hr	8.64	9.24	9.61
MMHC (molecular weight of 15.84)	(5)	g/bhp-hr	1.33	1.39	1.45
EXHAUST OXYGEN		%	12.3	12.2	11.9

ENERGY BALANCE DATA					
FUEL INPUT ENERGY (LHV)	(NOMINAL)	BTU/min	450,133	346,527	240,143
WORK ENERGY	(NOMINAL)	BTU/min	182,019	136,514	91,009
HEAT REJ. TO JACKET WATER	(NOMINAL)	BTU/min	37,444	32,606	26,097
HEAT REJ. TO ATMOSPHERE	(NOMINAL)	BTU/min	14,780	12,763	10,763
HEAT REJ. TO LUBE OIL	(NOMINAL)	BTU/min	22,846	20,500	17,754
HEAT REJ. TO EXH. (LHV to 77°F)	(NOMINAL)	BTU/min	162,787	130,836	92,216
HEAT REJ. TO EXH. (LHV to 350°F)	(NOMINAL)	BTU/min	83,403	70,643	51,206
HEAT REJ. TO AFTERCOOLER STAGE 1	(NOMINAL)	BTU/min	15,640	3,366	(3,486)
HEAT REJ. TO AFTERCOOLER STAGE 2	(NOMINAL)	BTU/min	14,617	9,502	5,789

CONDITIONS AND DEFINITIONS

ENGINE RATING OBTAINED AND PRESENTED IN ACCORDANCE WITH ISO 3046/1 (STD. REF. CONDITIONS OF 25°C, 101.3 kPa, 152 mm Hg). NO OVERLOAD PERMITTED AT RATING SHOWN. CONSULT ALTITUDE CURVES FOR APPLICATIONS ABOVE MAXIMUM RATED ALTITUDE AND/OR TEMPERATURE.

NOTES

1) FUEL CONSUMPTION TOLERANCE: ISO 3046/1 IS 0. + 5% OF FULL LOAD DATA. NOMINAL IS ± 2.5 % OF FULL LOAD DATA.

2) ENGINE POWER AND WORK ENERGY INCLUDE 1 ENGINE DRIVEN WATER PUMP.

3) EMISSION DATA SHOWN ARE DRY AND NOT TO EXCEED VALUES.

4) HEAT REJECTION TO JACKET AND EXHAUST TOLERANCE IS ± 10% OF FULL LOAD DATA. (Heat rate based on treated water).

5) HEAT REJECTION TO ATMOSPHERE TOLERANCE IS ± 50% OF FULL LOAD DATA. (Heat rate based on treated water).

6) HEAT REJECTION TO LUBE OIL TOLERANCE IS ± 20% OF FULL LOAD DATA. (Heat rate based on treated water).

7) HEAT REJECTION TO AFTERCOOLER TOLERANCE IS ± 5% OF FULL LOAD DATA. (Heat rate based on treated water).

8) AFTERCOOLER HEAT STAGE 1 = (A/C HEAT STAGE 1 + 0.895 × (STAGE 1 + STAGE 2) × (ACHRRP - 1)) ; (Heat rate based on treated water).

AFTERCOOLER HEAT STAGE 2 = (A/C HEAT STAGE 2 + 0.245 × (STAGE 1 + STAGE 2) × (ACHRRP - 1)) ; (Heat rate based on treated water).

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Caterpillar Inc. Peoria, Ill..



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Disassembly & Assembly Caterpillar Inc. Peoria, Ill.,1995

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