



Propulsion Marine Engine Performance Data

	Curve No.: DS: CPL: DATE:	M-641 DS-4983 1542 11-Dec-08
General Engine Data		
Engine Model	. KT/	A38-M2
Rating Type	. Cor	ntinuous
Rated Engine Power hp [kW	120	0 [895]
Rated Engine Speedrpn	י ו <i>י</i>	1800
Peak Engine Torque @ 1500 rpm lb. ft. [N·m] 384	2 [5210]
Brake Mean Effective Pressurepsi [kPa] 22	8 [1570]
Minimum Idle Speed Setting rpm	า 62	25-675
Normal Idle Speed Variation±rpm	ו	25
High Idle Speed Range Minimum rpm	י ו	1815
Maximumrpm	า 2	2016
Aspiration	. Turbochar	ged/Aftercooled
Compression Ratio	. 1	3.9:1
Piston Speed ft/min [m/sec] 187	0 [9.5]
Weight (Dry) - Engine Only - Averagelb. [kg] 929	1 [4218]
Weight (Dry) - Engine With HeatexchangerSystem - Averagelb. [kg] 999	6 [4538]
Installation Diagram No	. 40	61365
Fuel System ¹		10041
Fuel Consumption at Rated Speedgal/hr [l/hr		[224]
Approximate Fuel Flow to Pump	-	5 [397]
Maximum Allowable Fuel Supply to Pump Temperature °F [°C	-	0 [60]
Approximate Fuel Return to Tank Temperature	-	[68]
Maximum Heat Rejection to Drain FuelBTU/min [kW]		[3]
Fuel Pressure - Pump Out / Rail Mechanical Gaugepsi [kPa] 122.0	[841]
Air System ¹		
Intake Manifold Pressurein. Hg [kPa	1 54	[183]
Intake Air Flow	-	0 [1227]
Heat Rejection to AmbientBTU/min [kW) [78]
		.[.0]
Exhaust System ¹		
Exhaust Gas Flowcfm [l/sec] 6290	[2970]
Exhaust Gas Temperature (Turbine Out)°F [°C] 849	0 [454]
Exhaust Gas Temperature (Manifold)°F [°C] N.A	
Cooling System ¹	4	
Sea Water Pump Specifications		
Pressure Cap Rating (With Heat Exchanger Option)psi [kPa	J	7 [50]
Engines without Low Temperature Aftercooler (LTA)		
Jacket Water Aftercooled Engine (JWAC)	1 005	
Coolant Flow to Engine Heat Exchanger	-	5 [1268]
Standard Thermostat Operating Range (Start to Open)°F [°C		[82]
Standard Thermostat Operating Range (Full Open)°F [°C		6 [95]
Heat Rejection to Engine Coolant ³ BTU/min [kW]	32046	6 [563]
TBD = To Be Determined N/A = Not Applicable		
	N	I.A. = Not Avaliable
 All Data at Rated Conditions. Consult Installation Direction Booklet for Limitations. 		
 Consult installation Direction Booklet for Limitations. Heat rejection to coolant values are based on 50% water/50% ethylene glycol mix. 		
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4. Consult option notes for flow specifications of optional Cummins seawater pumps (if applicable).

All Data is Subject to Change Without Notice.