Sea Trial PAR data (System Format)

Sea Trial PAR data is used for the evaluation of engine performance, on a Marine vessel, primarily during the commissioning process. This data is not valid for other uses.

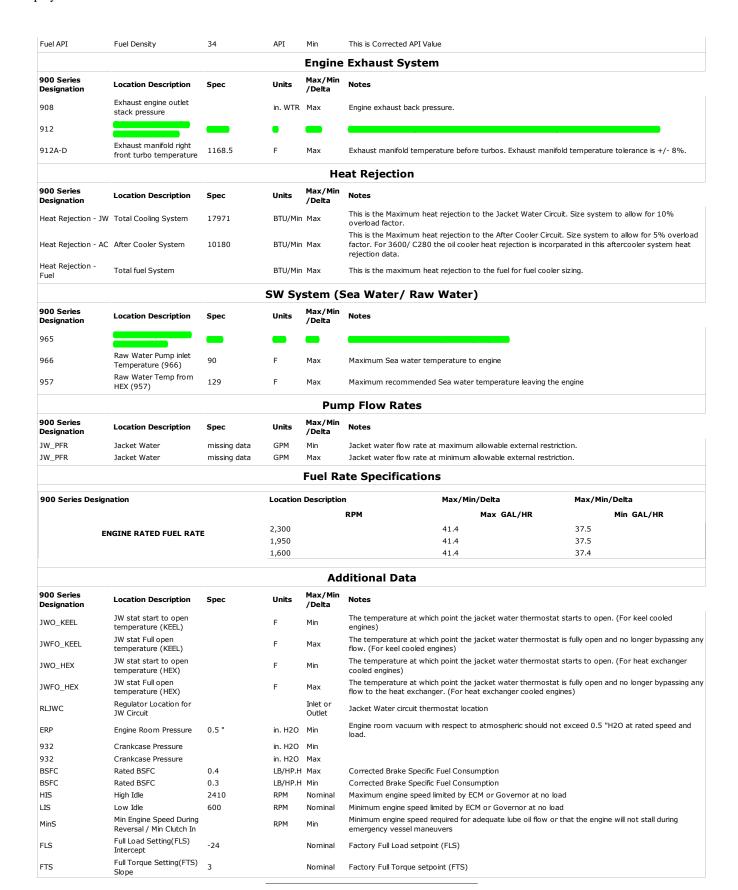
 $3406\mathrm{E}$ DI TA SCAC TEST SPEC 2T-9883 EFF S/N 9WR01285

				A	ir Systems
900 Series	Location Description	Spec	Units	Max/Min	Notes
Designation				/Delta	W
906	Intake air manifold temperature	98.6	F	Min	Minimum allowable intake manifold temperature under standard, 25C, ambient air operating conditions. This limit is variable as ambient air and sea water temperature varies. To account for "as tested" sea water and ambient air conditions, use the following equation. MIN = (IMAT minimum under standard conditions) + (Ambient Sea Water temp - 25C) + 0.3x(Air intake temp - 25C)
906	Intake air manifold temperature	116.6	F	Max	Maximum allowable intake manifold temperature under standard, 25C, ambient air operating conditions. This limit is variable as ambient air and sea water temperature varies. To account for "as tested" sea water and ambient air conditions, use the following equation. MAX = (IMAT limit under standard conditions) + (Ambient Sea Water temp -25C) + 0.3x(Air intake temp - 25C)
907	Air cleaner restriction - (gauge pressure)		in. WTR	Max	Maximum allowable intake restriction with a clean element.
911	Intake air manifold pressure	61.2	IN_HG	Min	Boost Pressure to the engine under rated speed/load conditions.
911	Intake air manifold pressure	82.8	IN_HG	Max	Boost Pressure to the engine under rated speed/load conditions.
930	Air cleaner outlet temp		F	Max	Inlet Air Temp @ Air Cleaner.
				Jacket	: Water Systems
900 Series Designation	Location Description	Spec	Units	Max/Min /Delta	Notes
922	Jacket Water Inlet Temp		F	Min	Jacket water inlet temp to engine from cooling system HEX outlet
922	Jacket Water Inlet Temp		F	Max	Jacket water inlet temp to engine from cooling system HEX outlet
901	Jacket water engine outlet temperature (before regulators)		F	Max	Jacket water temperature from engine to cooling system (HEX, Keel Cooler, Radiator)
902	Jacket water pump outlet temp		F	Max	Jacket water temp after pump outlet. This number should equal 922 with a fully open thermostat.
Jacket Water Engine Temperature Delta (dT)	Engine Jacket Water (Out-In) (901 and 902)	Error/duplicate pump curves	F	Min	901 (Jacket water temperature from engine) - 902 (Jacket water pump outlet temperature) * Value are based on 50/50 glycol coolant
Jacket Water Engine Temperature Delta (dT)	Engine Jacket Water (Out-In) (901 and 902)	Error/duplicate pump curves	F	Max	901 (Jacket water temperature from engine) - 902 (Jacket water pump outlet temperature) * Value are based on 50/50 glycol coolant
920	JW Pump Inlet Pressure	0.5	PSI	Min	Minimum inlet pressure required on jacket water pump inlet
			Aft	ercoole	r / Low Temp Circuit
900 Series Designation	Location Description	Spec	Units	Max/Min /Delta	Notes
903	Aftercooler water inlet temp to engine		F	Max	Maximum aftercooler water inlet design temp under standard reference conditions. For 3500 and larger engines, this limit is variable as sea water temperature changes. To account for "as tested" se water conditions, use the following equation. MAX TEMP = (Aftercooler Design Temp) + (Sea Water Design Temp) - (Emissions Set Point). Refer to low temperature cooling sizing chart for guidance
904	Aftercooler / Auxilliary low temp pump inlet pressure (treated water)	0.5	PSI	Min	Minimum inlet pressure required on pump inlet for a treated water system. (If aftercooler is Sea Water cooled, use Raw water pump data In SW System)
			Eı	ngine Li	ubrication Systems
900 Series Designation	Location Description	Spec	Units	Max/Min /Delta	Notes
913	Engine to oil bearings temp		F	Max	Engine Oil Temp
914	Engine to oil bearings pressure - Low Idle	15	PSI	Min	Low Idle Oil Pressure
914	Engine to oil bearings pressure - Low Idle	87	PSI	Max	Low Idle Oil Pressure
914	Engine to oil bearings pressure - Rated	40	PSI	Min	Rated Speed Oil Pressure
914	Engine to oil bearings pressure - Rated	87	PSI	Max	Rated Speed Oil Pressure
				Engin	e Fuel Systems
	Location Description	Spec	Units	Max/Min /Delta	Notes
				Max	At the Engine Mounted Fuel Filters
Designation	Engine Fuel Pressure	135	PSI	Max	
Designation 917	Engine Fuel Pressure Engine Fuel Pressure	135 67	PSI PSI	Min	At the Engine Mounted Fuel Filters
Designation 917 917	=				
Designation 917 917 935	Engine Fuel Pressure Fuel Inlet Temp Fuel return line restriction (engine outlet pressure)	67 151	PSI	Min	At the Engine Mounted Fuel Filters
900 Series Designation 917 917 935 936	Engine Fuel Pressure Fuel Inlet Temp Fuel return line restriction	67 151	PSI F	Min Max	At the Engine Mounted Fuel Filters At the fuel transfer pump inlet

This is Corrected API Value

Fuel API

Fuel Density



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