

TEST SPEC [T2R05978]**JUNE 18, 2021**For Help Desk Phone Numbers [Click here](#)
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Reference Number: 3717588

Effective Serial Number: ▼

Model: C18 DI TA SCAC

Make from Spec:

Test Spec Data				
Description	Measure	Nominal	Ceiling	Floor
Corr Full Load Power	hp	600	618	582
Full Load Speed	RPM	1800	1810	1790
High Idle Speed	RPM	1890	1930	1850
Low Idle Speed	RPM	600	610	590
FL Static Fuel Setting	in	0.317		
FT Static Fuel Setting	in	0.306		
FLS (Intercept)		-23		
FTS (Slope)		22		
Corrected Fuel Rate	GAL/HR	29.8	31.3	28.3
CSFC	LB/HP.H	0.342	0.363	0.324
Adjusted Boost	IN_HG	51.1	58.7	43.4
Torque Check Speed	RPM	1300	1310	1290
Corr Torq Rise at TC RPM	%	14.5		
Corr Torque at TC RPM	LB.FT	2,002	2,143	1,861
C Fuel Rate at TC RPM	GAL/HR	23.7	24.9	22.5
CSFC at TC RPM	LB/HP.H	0.332	0.358	0.314
ADJ Boost at TC RPM	IN_HG	49.4	56.8	41.9
Power Loss/Cyl	% C FL PWR	20.0	26.0	10.0
Specific Blowby	CU FT/HP.H			
Temp Jacket Water Pump Inlet	F	161	185	140
Delta T Jacket Water (out-in)	F	16	25	7
Inlet Manifold Temp	F			
Water Temp to Scac	F	84	89	62
Scac Water Flow	GAL/MIN			
Oil Pressure	PSI	66	87	26
Oil Pressure Low Idle	PSI	26	87	9
Fuel Pressure	PSI	109	146	73
Inlet Fuel Pressure	PSI		7	
Inlet Fuel Temp	F	86	95	77
Inlet Air Pressure	IN_HG		31	26
Inlet Air Restriction	IN_HG		0.59	-0.59
Inlet Air Temperature	F		122	50
Fuel Density	DEG API		36.0	34.0
Boost Constant		1.0		
Governor Setting Constant				

Test Spec Data				
Description	Measure	Nominal	Ceiling	Floor
Governor Setting Torque	% RTD TRQ			
High Idle Stability	RPM	5		
Low Idle Stability	RPM	5		
Set Point RPM	RPM	1820	1830	1810
Adjusted Boost (Gas Blending) 	HG			
Corrected Fuel Rate - Diesel (Gas Blending) 	GAL/HR			
Corrected Fuel Rate - Gas (Gas Blending) 	BTU/MIN			
Full Load Fueling (Gas Blending) 	MM3/ST			
Gas Substitution Ratio (Gas Blending) 	%			
Corr Full Load Power (Gas Blending) 	HP			
Full Load Speed (Gas Blending) 	RPM			
Exhaust Back Pressure	PSI			
TQ CK Exhaust Back Pressure	PSI			
Ataac Delta Pressure	PSI			

Engine Reference Information		
Description	Measure	Data
FL Static/FT Static Fuel Settings	in	0.317 / 0.306
Fuel Valve Part Number		
Unit Injector Part Number		2530618
Timing Dimension Field Service	in	
Timing Dimension Factory		
Torque Control Group Number		Change Level:
Fuel Pump/Gov Grp Part Number		2351403
Fuel Pump Type		EUI
Flyweight Part Number/Attitude		
Turbo Part No and Model		3020372 / S410W021-1.26VOW
Advertised Power / Governor Speed		600hp 1,800 RPM
Compression Ratio		16.5
Torque Rise Cam Part Number		
Manifold Type		WC
Engine Flash File Part Number		5398461
Rating Number		1
Flash File Change Number		
ASM Flash File Part Number		
ISM Flash File Part Number		
Advisor Flash File Part Number		
Secondary Module Flash File Part Number		
Messenger Flash File Part Number		
Tandem Software Flash File Part Number		
Governor Type		ELEC

Torque Control Group Spring Data

Part No	Thickness	Quantity
No data available in table		

Torque Control Group Spacer Data

Part No	Thickness	Quantity
No data available in table		

Timing Data
Mechanical Advance Part Number:
Chg. Level:
Advance: 0.0 DEG
Dog Leg Differentials: RPM: -- KW: --

Description	Measure	Spec	Minimum	Maximum
Timing Static @ 0 RPM BTDC	DEG		-2.0	2.0

Application/Performance Data

Description	Measure	Data
Application Identification		301 MP "A"
Engine Sales Model and Series		C18
Combustion System type		DI
Aspiration Type		TA
Engine Source Factory Ref Number		40
Power Setting PL/PP Ref Number		PP6957
Engine Perf Data Ref No and Change Level		EM0075
Multi Engine Torq/Rating		
Emissions Family		
Generator Rating W/O Fan	EKW	
Generator	HZ	
Brakesaver test		
Certified Engine Rating	hp	
Engineering Model Ref		E925
Low Idle In-Veh Speed	RPM	
Sales Model		
Machine Facility		
Usage		
Transmission		
Description		MP
Serial Number Prefix		

Altitude Derating Information

Description	Measure	Data
Altitude - Maximum	FT	984
Engine Power (ADV)	hp	640

Altitude Derating Information

Description	Measure	Data
Engine Power (Test)	hp	640
High Idle Speed	RPM	1890
FL Static Fuel Setting	in	0.317
FT Static Fuel Setting	in	0.306
Corrected Fuel Rate	GAL/HR	29.8
FL Boost Pressure	IN_HG	51.1

Spec Number vs.
Arrangement Number Cross Reference

Arrangement	3576092	3602272	3645740	3679307	3762356	3762360	3762369	3762370	5798291	5798292	5798293	5798294
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