

Model: G3412 GAS ENGINE 6ZM02596
Configuration: G3412 Engine 6ZM00001-UP

Test Spec Number: 2T-8563
Engine Serial Number: 6ZM02592
Engine Model: 3412
Combustion: SI
Aspiration: TASCAC

Test Specification Data

Description	Nominal	Ceiling	Floor
Corr Full Load Power	637 HP	656 HP	634 HP
Full Load Speed	1800 RPM	1810 RPM	1790 RPM
High Idle Speed	1854 RPM	1872 RPM	1831 RPM
Low Idle Speed	900 RPM	930 RPM	870 RPM
Diff Fuel Pressure	0.13 SI PSI	0.23 SI PSI	0.01 SI PSI
Diff Fuel PR Delt Vee	0.00 SI PSI		
Diff Fuel Press. Hi	0.22 SI PSI	0.23 SI PSI	0.20 SI PSI
Compressor Out Press	32.78 SI PSI	33.79 SI PSI	31.76 SI PSI
Inlet Manif PR - ABS	30.60 SI PSI	31.04 SI PSI	30.17 SI PSI
Diff in Man PR Vee	0.00 SI PSI		
Inlet Fuel PR - ABS	17.55 SI PSI	21.32 SI PSI	13.78 SI PSI
Excess Oxygen	8.4% SI %	8.9% SI %	7.9% SI %
Throttle Angle	60 DEG	65 DEG	60 DEG
NOX	340 PPM	360 PPM	320 PPM
Corrected Fuel Rate	1571.6 GAL/HR	1634.6 GAL/HR	1508.8 GAL/HR
CSFC	1.019 LB/HP-HR	1.718 LB/HP-HR	0.321 LB/HP-HR
Torque Check Speed	1300 RPM	1310 RPM	1290 RPM
Corr Torq Rise AT TC RPM	0%	8%	0%
Corr Torq AT TC RPM	1858 LB/FT	1988 LB/FT	1727 LB/FT
C Fuel Rate At TC RPM	0.0 GAL/HR	0.0 GAL/HR	0.0 GAL/HR
CSFC AT TC RPM	0.000 LB/HP-HR	0.000 LB/HP-HR	0.000 LB/HP-HR
Temp Jacket Water Pump Inlet	192 DEG F	198 DEG F	187 DEG F
Delta T Jacket Water(Out-In)	18 DEG F	27 DEG F	9 DEG F
Temp Engine Water Outlet	0	0	0
Inlet Manifold Temp	32 DEG F	32 DEG F	32 DEG F
Water Temp To SCAC	129 DEG F	135 DEG F	124 DEG F
SCAC Water Flow	0 GAL/min	0 GAL/min	0 GAL/min
Oil Pressure	58.0 PSI	66.7 PSI	49.3 PSI
Oil Pressure Low Idle	43.5 PSI	54.4 PSI	32.6 PSI
Inlet Air Pressure		15 PSI	13 PSI
Inlet Air Restriction		0.58 PSI	0.00 PSI
Inlet Air Temperature		122 DEG F	50 DEG F

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Test Specification Data

Description	Nominal	Ceiling	Floor
Corr Full Load Power	475.0 kW	489.0 kW	472.5 kW
Full Load Speed	1800 RPM	1810 RPM	1790 RPM
High Idle Speed	1854 RPM	1872 RPM	1831 RPM
Low Idle Speed	900 RPM	930 RPM	870 RPM
Diff Fuel Pressure	0.9 SI kPa	1.6 SI kPa	0.1 SI kPa
Diff Fuel PR Delt Vee	0.0 SI kPa		
Diff Fuel Press. Hi	1.5 SI kPa	1.6 SI kPa	1.4 SI kPa
Compressor Out Press	226.0 SI kPa	233.0 SI kPa	219.0 SI kPa
Inlet Manif PR - ABS	211.0 SI kPa	214.0 SI kPa	208.0 SI kPa
Diff in Man PR Vee	0.0 SI kPa		
Inlet Fuel PR - ABS	121.0 SI kPa	147.0 SI kPa	95.0 SI kPa
Excess Oxygen	8.4% SI %	8.9% SI %	7.9% SI %
Throttle Angle	60 DEG	65 DEG	60 DEG
NOX	340 PPM	360 PPM	320 PPM
Corrected Fuel Rate	84070.0 G/min	87440.0 G/min	80710.0 G/min
CSFC	620.0 G/kW.H	1044.8 G/kW.H	195.2 G/kW.H
Torque Check Speed	1300 RPM	1310 RPM	1290 RPM
Corr Torq Rise AT TC RPM	0%	8%	0%
Corr Torq AT TC RPM	2519 N.m	2696 N.m	2342 N.m
C Fuel Rate At TC RPM	0.0 G/min	0.0 G/min	0.0 G/min
CSFC AT TC RPM	0.0 G/kW.H	0.0 G/kW.H	0.0 G/kW.H
Temp Jacket Water Pump Inlet	89 DEG C	92 DEG C	86 DEG C
Delta T Jacket Water(Out-In)	10 DEG C	15 DEG C	5 DEG C
Temp Engine Water Outlet	0	0	0
Inlet Manifold Temp	0 DEG C	0 DEG C	0 DEG C
Water Temp To SCAC	54 DEG C	57 DEG C	51 DEG C
SCAC Water Flow	0 L/min	0 L/min	0 L/min
Oil Pressure	400 kPa	460 kPa	340 kPa
Oil Pressure Low Idle	300 kPa	375 kPa	225 kPa
Inlet Air Pressure		104.0 kPa	87.0 kPa
Inlet Air Restriction		4.00 kPa	0.00 kPa
Inlet Air Temperature		50.0 DEG C	10.0 DEG C