

Power, Filter & Leak Data Sheet

Engine # : L-8401-48	Model # : IO-540-K1A5	Order # : NTSB	Preservation: LPS 486
Operator 1: N. Welch	Accept/Date : _____	Test Mode : Final	Part 3.2 Test
Operator 2:	Accept/Date : _____	BOM : ENPL-2706	Sign: _____
Fuel Serial # : 31501/22	Ignition Left : 10090868	Ignition Right : 10080820	
Fuel Slave : NO	Ignit_L Slave : NO	Ignit_R Slave : NO	SW Rev : LSW20004(-) LYC
Fuel Curve: C-13048-D	Float Bowl Connected to Fuel Pump Inlet : YES		Barometer : 29.48
Pre-Oil Temp : 165	Pre-Oil Pres : 85	Setting # : 2524273-12	Read Time : 11/07/24 06:54
ETS # : 654_PWR & LEAK	ETS Rev : ECO-26195	Date/Time : 11/06/24 14:23	Test Status : Fail

Comments

Variations

The following minor variations to the applicable engine test specification were observed during this test and determined to be acceptable 'as is'. The acceptance of these variations will not affect air worthiness or performance.

1) _____
 2) _____
 3) _____
 4) _____
 Engr. _____ Q.C. _____ Date _____

When / Test	Low Limit	Value	High Limit	Status
Runin @ 1500 rpm for 5 min				
Allowable Speed Variation (rpm)	-75	2.7	75	Pass
Cylinder Head Temperature (°F)		244	475	Pass
Inlet Air Temperature (°F)	0	71.6	110	Pass
Runin @ 1800 rpm for 5 min				
Allowable Speed Variation (rpm)	-75	8.1	75	Pass
Cylinder Head Temperature (°F)		289.9	475	Pass
Inlet Air Temperature (°F)	0	71.9	110	Pass
Runin @ 2200 rpm for 5 min				
Allowable Speed Variation (rpm)	-75	-1	75	Pass
Cylinder Head Temperature (°F)		312.1	475	Pass
Inlet Air Temperature (°F)	0	68.9	110	Pass
MagChk @ 2200 rpm for 2 min				
Magneto Dropoff - Each Mag (rpm)		110.4	150	Pass
Magneto Dropoff - Difference (rpm)		20.9	35	Pass
Cylinder Head Temperature (°F)		309.2	475	Pass
Inlet Air Temperature (°F)	0	69	110	Pass
Rated @ Rated rpm for 10 min				
Speed (rpm)	2650	2714.2	2750	Pass
Manifold Pressure (in-Hg)	26.5	27.94	28.5	Pass
Fuel Pressure (psi)	18	23.7	28	Pass
Oil Pressure (psi)	75	80.2	85	Pass
Air Flow Limits (pph)	1636.6	1535.3	N/A	Fail
Cylinder Head Temperature (°F)		339.8	475	Pass
Oil Galley Temperature (°F)	165	185.4	215	Pass
Inlet Air Temperature (°F)	0	69	110	Pass
Idle @ Idle rpm for 5 min				
Speed (rpm)	600	648.1	700	Pass
Cylinder Head Temperature (°F)		268.2	475	Pass
Oil Galley Temperature (°F)	140	173.6	215	Pass
Oil Pressure (psi)	35	47.8	N/A	Pass
Manifold Pressure (in-Hg)	8	13.6	17	Pass
Inlet Air Temperature (°F)	0	70.2	110	Pass
WOT Time (sec)	2	4	5	Pass
Idle Cut-off Time (sec)	0	3	5	Pass