



The Standard

ENGINE LOG

ASA-DE-1

YEAR:

N305PF Engine logbook entry 6/17/2025 Tach: 2539.2

DATE

Drained oil... Removed oil filter, cut open & inspected, no defects found... Installed new oil filter & saftied... Serviced engine with 10 qts Phillips X/C 20W-50 & 16 oz Camguard... Removed turbocharger oil drain fitting, thoroughly cleaned & flushed bearing cavity, drain fitting, oil return hose, & check valve... Reassembled using new drain fitting gasket... Reference Rocket Engineering SIL No 04-305-1... Performed two ground runs, operational checks passed, no leaks found.

Craig Griswold
A&P 2730384 IA
Griswold Aviation LLC

N305PF Engine logbook entry 9/16/2025 Tach: 2567.3

Drained oil... Removed oil filter, cut open & inspected, no defects found... Installed new oil filter & saftied... Serviced engine with 10 qts Phillips X/C 20W-50 & 16 oz Camguard... Removed upper forward crankcase thru-stud, thoroughly cleaned, installed with CS3204B-1/2 & torqued... Performed ground run, operational checks passed, no leaks found.

Craig Griswold
A&P 2730384 IA
Griswold Aviation LLC
www.griswoldaviation.com

Repair

YEAR

DATE

N305PF Engine logbook entry 3/8/2026 Tach: 2595.6 TTE: 2895.6

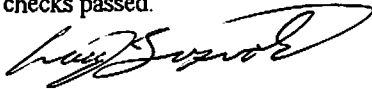

TSMOH: 964.5

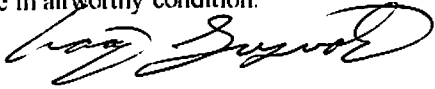
or Repair

Inspected engine IAW AMM inspection guide... Compressions: 1) 76/80 2) 70/80 3) 75/80 4) 77/80 5) 75/80 6) 68/80... Master orifice: 43/80... Inspected cylinders with borescope, no anomalies found... Replaced all spark plugs with new Tempest fine wire... Treated wastegate with Mouse Milk... Inspected throttle body fuel inlet screen, no defects found, installed with new gasket & saftied... Replaced induction air filter foam element with new... Drained oil... Removed oil filter, cut open & inspected, no defects found... Installed new oil filter & saftied... Serviced engine with 10 qts Phillips X/C 20W-50 & 1 pint Camguard... Removed starter adapter ass'y, installed overhauled 658440A1 starter adapter from Quality Aircraft accessories under w/o: M755910... Removed both magnetos, sent to Aircraft Magneto Service for overhaul uner w/o: 61507/61508... Installed magnetos after overhaul using new base gaskets & drive gear bushings, set proper timing... Removed fuel metering valve 632916-11, sent to D&G Supply for overhaul under w/o: 49410, installed after overhaul using new mounting bolt lock tab washers... Removed oil scavange line from bottom turbocharger, inspected & cleaned, installed using new gasket... Replaced prop governor control cable with new from McFarlane Aviation... Performed ground run, operational checks passed, no leaks found.

I certify that this engine has been inspected in accordance with an annual inspection and was determined to be in airworthy condition.

Craig Griswold
A&P 2730384 IA

YEAR:	RECORDING	TODAY'S	TOTAL	Description of Inspections, Tests, Repairs and Alterations	Repair
DATE					
	N305PF	Engine logbook entry	5/2/2024	Tach: 2495.6	
	Drained oil... Removed oil filter, cut open & inspected, no defects found... Installed new oil filter & saftied... Serviced engine with 10 qts Phillips X/C 20W-50 & 16 oz Camguard... Performed ground run, operational checks passed.				
				Craig Griswold A&P 2730384 IA Griswold Aviation LLC www.griswoldaviation.com	
	N305PF	Engine logbook entry	10/1/2024	Tach: 2511.0	
	Drained oil... Removed oil filter, cut open & inspected, no defects found... Installed new oil filter & saftied... Serviced engine with 10 qts Phillips X/C 20W-50 & 16 oz Camguard... Performed ground run, operational checks passed.				
				Craig Griswold A&P 2730384 IA Griswold Aviation LLC www.griswoldaviation.com	

YEAR:	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations
				Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
DATE				
	N305PF	Engine logbook entry	11/19/2024	Tach: 2525.9 TTE: 2825.9 TSMOH: 894.8
	Inspected engine IAW AMM inspection guide... Compressions: 1) 78/80 2) 75/80 3) 76/80 4) 79/80 5) 78/80 6) 70/80... Master orifice: 43/80... Cleaned, inspected, rotated spark plugs, installed using new gaskets... Adjusted right magneto timing to match left @ 19.7° BTDC... Treated wastegate with Mouse Milk... Inspected throttle body fuel inlet screen, no defects found, installed with new gasket & saftied... Replaced induction air filter foam element with new... Washed engine with solvent... Removed fuel pump for access... Removed oil pump housing aft cover, cleaned, reinstalled with silk thread sealant per M-0... Installed fuel pump using new gasket... Performed ground run, operational checks passed.			
	I certify that this engine has been inspected in accordance with an annual inspection and was determined to be in airworthy condition.			
				Craig Griswold A&P 2730384 IA Griswold Aviation LLC www.griswoldaviation.com

YEAR: N305PF Engine logbook entry 10/10/2022 Tach: 2308.9 TTE: 2608.9

DATE: TSMOH: 677.8

Inspected engine IAW AMM inspection guide... Compressions: 1) 76/80 2) 70/80 3) 72/80 4) 75/80 5) 68/80 6) 68/80... Master orifice: 43/80... Cleaned, inspected, rotated spark plugs, installed using new gaskets... Treated wastegate with Mouse Milk... Inspected throttle body fuel inlet screen, no defects found, installed with new gasket & saftied... Solvent cleaned # 5 fuel injector, installed using new o-rings & UDP sealing washer... C/W AD 95-17-06 by inspection of exhaust transition tube, no defects found, next due 25 hours... Performed ground run, operational checks passed.

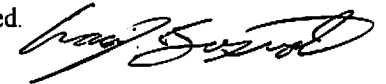
I certify that this engine has been inspected in accordance with an annual inspection and was determined to be in airworthy condition.



Craig Griswold
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Griswold Aviation LLC
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N305PF Engine logbook entry 9/8/2023 Tach: 2328.2

Drained oil... Removed oil filter, cut open & inspected, no defects found... Installed new oil filter & saftied... Serviced engine with 11 qts Phillips X/C 20W-50... Performed ground run, operational check passed.



Craig Griswold
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www.griswoldaviation.com

Repair

YEAR: 7

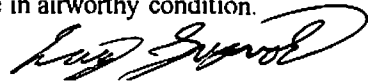
DATE:

N305PF Engine logbook entry 10/27/2023 Tach: 2356.4 TTE: 2656.4

TSMOH: 725.3

Inspected engine IAW AMM inspection guide... Compressions: 1) 68/80 2) 72/80 3) 76/80 4) 71/80 5) 72/80 6) 70/80... Master orifice: 43/80... Cleaned, inspected, rotated spark plugs, installed using new gaskets... Treated wastegate with Mouse Milk... Inspected throttle body fuel inlet screen, no defects found, installed with new gasket & saftied... Replaced induction air filter foam element with new... Performed ground run, operational checks passed.

I certify that this engine has been inspected in accordance with an annual inspection and was determined to be in airworthy condition.



Craig Griswold
A&P 2730384 IA
Griswold Aviation LLC

N305PF Engine logbook entry 12/18/2023 Tach: 2382.9

Drained oil... Removed oil filter, cut open & inspected, no defects found... Installed new oil filter & saftied... Serviced engine with 11 qts Phillips X/C 20W-50... Performed ground run, operational check passed.



Craig Griswold
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Griswold Aviation LLC
www.griswoldaviation.com

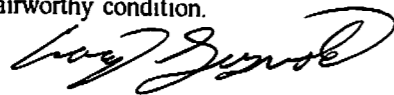
Repair

YEAR: _____ DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
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N305PF Engine logbook entry 9/10/2021 Tach: 2261.5 TTE: 2561.5
TSMOH: 630.4

Inspected engine IAW AMM inspection guide... Compressions: 1) 72/80 2) 72/80 3) 71/80 4) 72/80 5) 66/80 6) 75/80... Master orifice: 43/80... Cleaned, inspected, rotated spark plugs, installed using new gaskets... Treated wastegate with Mouse Milk... Inspected throttle body fuel inlet screen, no defects found, installed with new gasket & saftied... Drained oil... Removed oil filter, cut open & inspected, no defects found... Installed new oil filter & saftied... Serviced engine with 11 qts Phillips X/C 20W-50... C/W AD 95-17-06 by inspection of exhaust transition tube, no defects found, next due 25 hours... Performed ground run, all systems operational checks passed.

I certify that this engine has been inspected in accordance with an annual inspection and was determined to be in airworthy condition.

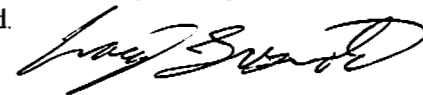


Craig Griswold
A&P 2730384 IA
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YEAR: _____ DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
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N305PF Engine logbook entry 7/20/2022 Tach: 2291.4

Drained oil... Removed oil filter, cut open & inspected, no defects found... Installed new oil filter & saftied... Serviced engine with 12 qts Phillips X/C 20W-50... Performed ground run, operational check passed.



Craig Griswold
A&P 2730384 IA
Griswold Aviation LLC
www.griswoldaviation.com

YEAR: 19	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
DATE				
7/11	2245.9		584.8 TSMOH	Drained & filled oil + changed oil filter ^{SPINER} AA48109 Serviced with quarts of Phillips X/C 20W-50 and Cam Guard additive CE 3515027
<p>N305PF Engine logbook entry 7/11/2019 Tach: 2215.9 C/W AD 95-17-06 (c) by inspection of exhaust & turbo mounting brackets, no defects found. next due 25 hours.</p> <p><i>Craig Griswold</i> Craig Griswold A&P 2730384 IA Griswold Aviation LLC www.griswoldaviation.com</p>				

YEAR:	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
DATE				
				<p>N305PF Engine logbook entry 8/17/2020 Tach: 2239.8 TTE: 2539.8 TSMOH: 608.7</p> <p>Inspected engine IAW AMM inspection guide... Compressions: 1) 78/80 2) 68/80 3) 77/80 4) 70/80 5) 74/80 6) 20/80... Master orifice: 43/80... Cleaned, inspected, rotated spark plugs... Treated wastegate with Mouse Milk... Inspected throttle body fuel inlet screen, no defects found, installed with new gasket & saftied... Replaced induction air filter element with new... Removed GAMInjectors, sent to GAMI for cleaning & inspection... Installed GAMInjectors using new o-rings & seal washers... Installed new GAMI identification tags on fuel injector lines & rocker box covers... Removed cylinder # 6... Installed new Superior SA52006-A22P s/n: 526-C20-4254 cylinder kit IAW manufacturers instructions... Replaced the following gaskets with new: All exhaust pipe-to-cylinder head; Turbocharger inlet; Wastegate inlet... Drained oil... Removed oil filter, cut open & inspected, no defects found... Installed new oil filter & saftied... Serviced engine with 11 qts Phillips X/C 20W-50... C/W AD 95-17-06 by inspection of exhaust transition tube, no defects found, next due 25 hours... Performed ground run, all systems operational checks passed.</p> <p>I certify that this engine has been inspected in accordance with an annual inspection and was determined to be in airworthy condition.</p> <p><i>Craig Griswold</i> Craig Griswold A&P 2730384 IA Griswold Aviation LLC www.griswoldaviation.com</p>

YEAR: _____
 RECORDING TACH TIME
 DATE

April 25, 2016
 N305PF
 TSMOH 477.3
 Tach 2113.9



nd Alterations
 icate Number of Technician or Repair

I certify that this engine has been inspected in accordance with an annual inspection as per manufacturer's service manual and was determined to be in an airworthy condition. Performed compression checks as follows #1 69/80, #2 65/80, #3 68/80, #4 70/80, #5 75/80, #6 76/80. Removed oil filter and inspected, installed filter PN CH48109-1 and serviced engine with 12qts Aeroshell 15w-50. Checked magneto timing. Removed spark plugs and replaced with new Tempest URHB32E Plugs. CW AD 95-17-06 by inspection. Replaced #2 and #3 valve cover gaskets with RG-534857 gaskets.

Chris Akin
 A&P 3114129 IA

YEAR: _____ RECORDING TACH TIME TODAY'S FLIGHT TOTAL TIME IN SERVICE Description of Inspections, Tests, Repairs and Alterations
 Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)

Advanced Aircraft Services, LLC. 1590 NW Perimeter Way, Troutdale, OR 97060 503-465-2298
 N305PF Date 1/20/2017
 Mooney Tach 2127.50
 Model: M20K Serial: 25-0486 TT 2427.50
 Continental TSIO-520-NB Serial: 290544R TSMO 496.40
 Accomplished the following work:

Completed 100 Hour inspection at this time using the manufacturer's checklist. Performed a compression check: #1- 77/80, 2- 75/80, 3- 73/80, 4- 67/80, 5- 78/80, 6- 77/80. Changed engine oil and oil filter. Serviced engine with 12 qts. Phillips XC 20W50. Inspected oil filter for metal contamination and found none. Borescoped cylinders. Took oil sample. Sent to Blackstone Labs. Checked engines controls for proper travels and safeties. Cleaned fuel system screens. Removed #3 cylinder due to crack. Installed overhauled TCM class 71.2 cylinder assembly, sn 13978-2 as provided by Premier Aircraft. Cylinder was installed with new gaskets and seals IAW TCM service instructions. Removed and reinstalled alternator with new drive coupling and gasket. AD's researched through Jan 20, 2017.

Accomplished the following Airworthiness Directives.
 AD# 2016-16-12 Eci Cylinders, eff 9/15/2016 -- N/A by cylinder assemblies installed. No further action required.

This Engine has been inspected in accordance with an Annual inspection and has been found to be in an Airworthy condition.

A&P 2151474 IA

YEAR: _____ DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
				TIME CARRIED FWD FROM PREVIOUS LOG
				2113.8 TACH SINCE MAJOR 477.2 HRS
				COMPRESSION CK. AS FOLLOWS: #1-76/80, #2-75/80 #3-67/80, #4-77/80, #5-74/80, #6-75/80. CLEANED & GAPPED SPARK PLUGS, CLEANED INJECTORS, CLEANED FUEL SERVO & GASCUATOR SCREENS CK'D MAG TIMING C/W AD 95-12-D6 BY INSPECTION OF EXHAUST & MOUNT OK, CK'D TURBO BRGS. & SCROLL CK'D INLET AIR FILTER & ALTERNATE AIR. ENG GROUND RUN & LEAK CK'D OK. <i>Howard E. Schuck</i> #8P 1404095

YEAR: _____ DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
1/1/15				Compressions #75 #2 76 #3 67 #4 77 #5 74 #6 75 over 80. AD 2014-05-29, N/A SAP CYLS not installed performed routine 100 hr service and maintenance inspected engine in a shop I/A/W FAR 43.33 & certifying & have inspected this engine in accordance with the applicable inspection and it was determined to be in airworthy condition. <i>Howard E. Schuck</i> #3209697AI
	7154.9			
	2113.8			
	477.2			

Engine Record General Information

Manufacturer TELEDYNE CONTINENTAL Model T510-520-NB

Serial 290544R Type Certificate _____

This engine is currently installed in aircraft N1305PF

Minimum Octane Fuel _____ Oil Grade: Summer _____ Winter _____

Magneto Time _____ Point Setting _____ Firing Order _____

Spark Plug Gap _____

Manufacturer recommended overhaul at _____ hours

Log book 2

ENGINE LOG

FAA CERTIFIED TOWER STATION NO. R118460M



ENGINES, INC.
2110 WEST 19TH STREET
ELIZABETHTON, TENNESSEE 37543
428-542-2811

DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
2/19/2012			2113.8	TOTAL TIME SINCE M.O.I.H. 813 Hrs 427.2 COMPRESSION OK AS FOLLOWS: #1-78/80 #2-77/80 #3-60/80 #4-74/80 #5-77/80 #6-77/80 CLEANED & GAPPED SPARK PLUGS, CLEANED INJECTORS, CLEANED FUEL SERVO FUEL SCREEN, CHECKED MAG TIMING, CHECKED EXHAUST SYSTEM C/W AD 95-12-06 BY INSPECTION OF EXHAUST & MOUNT OK, CHECKED TURBO OK CHECKED INLET AIR FILTER & ALTERNATE AIR DOOR OK ENGINE GROUND RUN & LEAK CHECKED OK. Donald E. Schuch A#P 1404025

DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
2012				
FEB. 20, 2012			2113.8	Time S.M.O.I.H. 813 Hrs 427.2 ANNUAL INSPECTION COMPLETED PER FAR 43 APPENDIX "D" REQUIREMENTS AND NOTES LISTED ON COMPLIANCE SHEETS I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION DATE 2-20-2012 Donald R. Hunt TACK 2113.8 HRS A#P 1279416 IA

WESTERN OREGON AVIATION
ROSEBURG-LOOKINGGLASS AIRPORT
250 STRICKLAND CANYON ROAD
ROSEBURG, OR 97471
(541)679-3721

DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
AUG 15, 2008	TACK	Time	2066.0 Hrs	T.S.M.O.H. ⁴³⁴⁹ 339 Hrs ANNUAL Inspection Completed As per FAR 43 APPENDIX "D" Requirements Compression Tested, Control Operation Tested A/D Notes Status Listed on Compliance sheets
WESTERN OREGON AVIATION ROSEBURG-LOOKINGGLASS AIRPORT 250 STRICKLAND CANYON ROAD ROSEBURG, OR 97471 (541)670-3721				I CERTIFY THAT THIS <u>ENGINE</u> HAS BEEN INSPECTED IN ACCORDANCE WITH A <u>ANNUAL</u> INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION TACK 2066.0 Hrs Donald P. [Signature] Date 8-15-08 A/P 1279416 IA

DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
17/110	2090.0	TSMOH	579 HRS	45519 CLEANED 95-12-VIA BUNSP. OK COMPRESSION OK AS FOLLOWS 1-75/80, 2-70/80, 3-75/80, 4-70/80 #5-75/80, #6-70/80 CHANGED OIL AEROSHELL 100 & FILTER FILTER CHECKED FOR METALOK, CHECKED & GAPPED SPARK PLUGS - CLEANED FUEL FILTER CLEANED 95-12-06 BY INSP EXHAUST & MOUNT, CHECKED TURBO OK, CHECKED ALT A/D DOOR OK, ENG OIL ANALYSIS BY [Signature] AEROSHELL 100 & FILTER & LEAKS CHECKED OK Donald E. [Signature] 1279416 IA

DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
2007				
AUG 2, 2007			Tach Time 2048.7	ANNUAL INSPECTION - TUESDAY 417.4 Inspected Engine as per FAR 43, Appendix D Requirements, Compression Checked, Exhaust Checked.
				I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION. Tach 2048.7 DATE 8-2-07 AIP 1279416 IA
				WESTERN OREGON AVIATION ROSEBURG, LOOKINGGLASS AIRPORT 250 STRICKLAND CANYON ROAD Roseburg, OR 97470 (541) 679-3721

DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
2008				
8/14			2066.0	TACH TIME 2066.0 339 434.9 COMPRESSION CK AS FOLLOWS: #1-75/80, #2-75/80, #3-76/80 #4-78/80, #5-71/80, #6-75/80 CHANGED OIL & FILTER, FILTER METAL CHECK, CKD TURBO & EXHAUST SYSTEM CLEANED FUEL SERVICE SCREEN, CKD EXHAUST/HEAD IN ACCORDANCE W/ AD 95-17-06 CLEANED FUEL INJECTORS & REPLACED SOLENOID VALVES CLEANED & GAPPED SPARK PLUGS CONTROLS FOR TRAVEL, ENGINE GROUND RUN & CHECKED OK. AIP 1404095

DATE 19__	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
7/16/06	2034.6	TS	MOH 403.5	<p>engine inspected per 100 Hr inspection compression check as follows cyl # 1 72/80 #2 69/80 #3 73/80 #4 79/80 #5 69/80 #6 68/80 checked timing on mags, oil and filter not changed due to 2 HRS run time on engine since teardown inspection next oil change should be in 23 Hour at Tech 20576I certify this engine has been inspected and found to be airworthy. Will like AP565948941</p>

DATE 19__	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
Aug 2, 2007			2048.7	<p>412.6 HRS SMOH CHANGED OIL FILTER, cleaned FUEL SCREEN IN FUEL SERVO. cleaned & Gapped SPARK PLUGS CHECKED MAG TIMING, cleaned FUEL INJECTORS CHECKED EXHAUST/MOUNT IN ACCORDANCE WITH AD 95-17-06. checked TURBO SCROLL OK. COMPRESSION CR AS FOLLOWS - #1 70/80 #2 78/80 #3 79/80 #4 79/80 #5 78/80 #6 78/80 ENGINE GROUND BREAK OK. Will like AP565948941</p>

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10/8/05	1970			
7-30-04				oil and filter changed by Waukesha Flying Services Inc 2525 Aviation Dr Waukesha WI 53188 INVOICE # 200014148 verified by - End- Will Will AP 56548941
10/8/05	Tach		2032.1	Engine removed from Aircraft due to Sudden stoppage inspection, engine disassembled, cleaned and inspected, crankshaft, camshaft, gears and rods sent to A/C specialties for mag/ultrasonic NDT, cases inspected using Flourescent Penetrant method, installed new new

Cont. Next PG

DATE 19__	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
	Continued	—	Bevel	gear P/N 629748 installed 2cc factory overhauled magnetics, engine reassembled with all new gaskets, seals, locking tabs, woodruff keys, engine installed in mooney 305PF, serviced with 12 qt Aeroshell 100 mineral, timing set at 20° SPARK PLUGS cleaned gapped and tested, ground trans. leak check, and test flight all satisfactory Will Will AP 56548941

DATE 19__	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
2-25-04	185 ^{tach}	5.6	224.5	<p>TSMOH</p> <p>engine removed and disassembled due to sudden stoppage, crankshaft and drive gears sent to E.C.I. for magnetic particle inspection. All gears passed, crankshaft rejected due to wear limits. engine reassembled using new factory crankshaft P/N 649898 S/N N02BA470, new connecting rod bolts and nuts, new oil collar P/N 629680, new gaskets and seals, overhauled turbo-charger installed S/N 2D000525, C/W 100 hr inspection, compression check cyl #1 75/80 #2 68/80 #3 75/80 #4 74/80 #5 75/80 & #6 72/80</p>

Cont →

DATE 19__	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
	Cont →			<p>Cleaned, gapped & tested spark plugs, set magneto timing at 20 degrees, added 12 qt AeroShell W-80, new oil filter, engine ground run operation and power normal, no leaks noted. End. WML WLL AP 565948941</p>
	5:304	1916.5		<p>drained oil, removed and inspected oil filter, no metal found, installed CHYB109 filter, added 12 qt AeroShell W-100 ran engine, no leaks noted. End - WML WLL AP 565948941</p>

DATE 19__	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
6-2-2002	1631.1	Tach 1631.1		
6-2-2002				engine removed for tear down inspection, and overhauled per TCM overhaul manual
				NDT on crankshaft, rods, gears, rocker arms, cases, and cylinders overhauled at E.C.I. San Antonio TX. Turbo wastegate and controller at Main Turbo Systems Visalia Ca. Fuel System complete at Western Skyways Grand Junction CO. starter adapter overhauled at Western Skyways engine assembled, installed, test run and leak checked. Pilot to test flight, A/C Test Flown (see Airframe Log Book) 1.3 Hours. Filter removed and inspected, no metal cont.

DATE 19__	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
		Cont.		Found, installed new oil filter and 12 qt Aeroshell W-100, engine/A/C returned to service after final adjustment of Fuel Pump pressures per S.D. 97-3A. Will Will ATP565948941
8-3-02	Tach 1632.3		TSmoH 1.2	I certify this engine has been inspected IAW an Annual inspection and found to be in air-worthy condition. Will Will ATP565948941

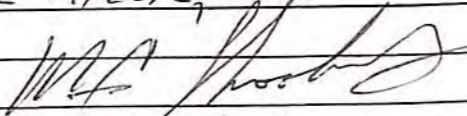
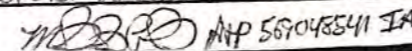
DATE 19__	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INS 'ECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
				TACH TIME <u>1455.1</u> TOTAL TIME <u>1906.5</u> SMON <u>1528.4</u>
				I HAVE INSPECTED THIS <u>Engine</u> IAW FAR 43. APP. L.
				AND <u>Mooney</u> SERVICE MANUAL # <u>Rocket</u> IAW ANNUAL 100 HR
				INSPECTION AND NOW THIS DATE RETURN TO SERVICE <u>12-16-00</u>
				JOHN C. GRAY A & P 2231891 IA <u>John C. Gray</u>
11-24-01	Tach 1506.2			Performed Compression check as follows cyl. #1
				72/80, cyl #2 50/80, (Ring blowby only) cyl #3 71/80, cyl #4
				70/80, cyl #5 75/80, cyl #6 70/80. drained oil, and
				inspected filter, no metal found, added 10qt
				Aeroshell 80, ran engine, no leaks noted.
				<u>Will Will</u> ATP 565948941


DATE 19__	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
3-28-01	1528.9	-		Installed new alternator overhauled by Electrosystems order # 576929 P/N ALX9524R leak and opps checks good <u>Will Will</u> ATP 565948941
				N 305 PF ENGINE LOG ENTRY
				4/23/01 TACH 1570.7 CHANGED OIL, 11 QTS A/S 15W50. CHECKED & CHANGED OIL FILTER P/N CH48109 WASHED ENGINE, RAN UP FOR LEAK CK. AT FILTER, OK.
				<u>Steven L. Wagner</u> ATP 520644979

DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
1999				
11-26	1118.2			<p>Changed oil and filter, inspected filter No metal found. Added 128⁺ Aeroshell 80, cleaned, gapped and tested spark plugs, replaced 5 ea bad spark plugs, checked magneto timing, compression check as follows cyl. #1 74/80 #2 60/80, #3 74/80, #4 65/80, #5 63/80, #6 66/80, cleaned fuel injectors, replaced #6 cyl intake push rod tube and seals, replaced #5 cyl intake manifold gasket, Found 3/4" shallow crack in crankcase above and fwd of #6 cyl 11500 stud, within limits per Continental</p>

DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
19__				
			Cont-	<p>Service bulletin m90-17 installed new Bracket air filter element, complied with AD 95-17-06 exhaust gas leakage, this engine has been inspected in accordance with a 100 hr inspection and found to be in airworthy condition.</p> <p>Will Will ADP 565948941</p>

SEI AIRCRAFT LOG BOOK FOR 100 HR INSPECTION 12-20-98

DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
3-3-99	889.0			CHANGED OIL & FILTER; FILTER CHECKED OK; OIL SAMPLE TAKEN; SERVICED ENGINE W/ 11 QTS. PHILLIPS 1/4 C 20W50. Run-up + LEAK CHECK, OK. 
21 APR	920.0			Engine Turbo Controller and wastegate Removed and Sent to Main Turbo, Visalia, Ca. For Bench Check. Turbo Controller bench check good. Waste Gate Repaired under warranty. Wastegate and Controller Reinstalled on Engine. Engine Run-up Complied with leak and op Check Good. Engine is approved for Return to Service this date.  APP 569048541 IA

DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
23 MAY	920.0			Reinstalled Turbochargers - Factory Overhaul Serial Number CNN 00771 PIN 407810-9001. Leak and op Check Good. Aircraft and Engine Approved for Return to Service  APP 569048541 IA
8-17-99	Tach 1029.0			Changed Engine oil, 10 Qts Shell 100 1 CF48109 oil filter, old filter OK. Sample taken. Resealed #5 Intake tube and fuel Injector. Pete Nelson A: P519089603

DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
8-5-98	726.7			Removed old vac. pump SN. 11AJ3507, Reinstalled new vac. pump SN. T301964, part # 14128-006, ground operation check - ok. End entry William S. Zimmerman CRS DYIR103K WO# 12148
9-9-98	TACH 731.9			INSTALLED NEW BRACKET INDUCTION AIR FILTER, INSTALLED NEW TURBOCHARGER OIL INLET & OIL OUTLET CHECK VALVES. ENGINE GROUND RUN, OPS CHECKS, LEAK CHECKS OK OIL OUTLET CHECK VALVE HAS A DATE STAMP OF 2095 AND IS IN CW AD 95-08-10. END - Larry J Snyder CRS DYIR103K WO# 12167
9-11-98	Tach 733.0			Changed oil and filter added 12 QTS AS 100W oil, and 1 bottle of oil additive LW-16702, Inspected old filter. Run up A/C, leak checked - good. William S. Zimmerman CRS DYIR103K WO# 12167

AERO ONE #2 -308 Airport Loop, Twin Falls, ID 83301

Engine: Cont. TSIO-520-NB(8) Tach: 792.8 Date: 10-23-98
S/N 290544-R TTE: 1244.2

Drained oil, removed filter, took oil sample by tube, no foreign material in filter - removed top plugs, compression check: #1 74/80, #2 72/80, #3 76/80, #4 74/80, #5 74/80, #6 24/80 exhaust - removed bottom plugs - removed #6 cylinder due to low compression - installed new cylinder assy P/N 64372-01C and the following new parts: gasket set P/N SA520T1, Insight probes P/N PRB2870 and PRB 2871, turbo whye gasket P/N 640877, ignition harness P/N Ch12216, 12 sparks plugs P/N RHB32E, 2 front motor mounts P/N J1245-1, 4 induction heat shields P/N 305-10-04, 1 induction heat shield P/N 305-10-05, gov. cable clamp P/N 305-14-02, gov. cable bracket P/N 305-14-501, and LH isolator pad heat shield P/N 305-10-03 - installed turboGAMIjectors Kit # GT14C, S/N 2317 IAW STC SE09289SC as follows: P/N GA205 on cylinders #1 and #2, P/N GM191 on cylinders #3 and #4 and P/N GF181 on cylinders #5 and #6 (manufactured by General Aviation Modification, Inc, 2800 Airport Rd. Hangar A, Ada, OK 74820, 405-436-4833, fax 405-436-6622) see FAA Form 337 in aircraft papers - installed new oil filter P/N CH48108, serviced engine with 11 qts X-C Phillips oil - engine was washed with solvent and test run - no visible oil leaks - compression check #6 cylinder 74/80 - returned engine to service - test flight proved satisfactory.

Rick Robinette *[Signature]* A&P518583365IA

END

ONS
NUMBER OF
ENTRIES

DATE
19__

AERO ONE #2 - 308 Airport Loop, Twin Falls, ID 83301

Engine: Continental TSIO-520-NB S/N 290544R Tach: 595.2 Date: 01-15-98

Completed 100 hour inspection this date in accordance with Aero One #2 inspection report and FAA Part 43 Apendix D - ran a compression check #1 75/80, #2 74/80, #3 74/80, #4 74/80, #5 75/80, #6 74/80 - changed oil and filter, serviced the engine with 12 quarts of 20/50 X-C Phillips oil, removed old filter, cut open and inspected, no foreign material was found, installed a new CH48108 oil filter and safety wired - cleaned and gapped spark plugs, installed plugs using new gaskets P/N M674 - removed fuel controller screen, no foreign material was present - checked and set mag timing to 20 degrees BTC - removed fuel injector nozzles, cleaned and installed using Loctite Hydraulic Sealant #56931 and torqued to 50 inch pounds - C/W AD95-17-06 exhaust system cracks by inspection, none were found, NID in 50 hours/645.2 Tack time - C/W AD98-01-08 roller rocker arms N/A by no roller rocker arm installation or STC - washed engine with solvent, test ran, no

Cont.

NO. OF
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visible oil leaks were found - returned engine to service - all the above work was performed in accordance with Cont. Engine TSIO520NB Service Manual - for a description of work performed, see Aero One #2 Invoice # 10564 - see complete AD listing in the rear of log book #1

Rick Robinette *Rick Robinette* A&P518583365IA

END

I certify that this has been inspected in accordance with a 100-hour inspection and was determined to be in an airworthy condition.

Tach: 595.2
Hobbs:
TTAF: 5636.3

TTE: 1046.6
TSMOH: 669.5
TSPOH: 595.2

Date: 01-15-98

Rick Robinette
Rick Robinette - A & P 518583365IA

NO. OF
TRIES.)

AERO ONE #2 - 308 Airport Loop, Twin Falls, ID 83301

DATE

19__

Engine: TSIO-520-NB S/N 290544R Tach : 495.2 Date: 08-29-97

Changed oil and filter, serviced engine with 12 qt's 20/50 X-C Phillips oil, removed old filter, cut open and inspected, no foreign material was present, installed a new Champion CH48108 oil filter and safety wired, took oil sample by tube and sent to The Oil Analysis Lab, Inc. for analysis - ran a compression check #1 70/80 #2 73/80 #3 73/80 #4 73/80 #5 72/80 #6 71/80 - performed a 50 hour inspection on the engine - washed the engine with solvent, test ran, no visible oil leaks were found - cowled engine and returned to service.

Rick Robinette *Rick Robinette* A&P518583365IA

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NUMBER OF
ENTRIES.)

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NUMBER OF
ENTRIES.)

AERO ONE #2 - 308 Airport Loop, Twin Falls, ID 83301

Engine Continental TSIO-520-NB S/N 290544R Tach: 542.4 Date: 10-17-97

Warmed up engine, drained oil, took oil sample by tube and sent to Oil Analysis Lab, Inc., for analysis, serviced engine with 12 qt's of 20/50 X-C Phillips oil, removed filter, cut open and checked for foreign material, non was found, installed a new Champion CH48108 filter and safety wired - Ran a compression check #1 73/80 #2 72/80 #3 76/80 #4 72/80 #5 70/80 #6 73/80 - Cleaned top plugs and installed using new M-674 gaskets - solvent off engine, test ran, no visible oil leaks were found - cowled aircraft and returned engine to service.

Rick Robinette *Rick Robinette* A&P518583365IA

-----END-----

DATE 19 47	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INS 'CTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
14 JAN	JUL		418.0	Ran static & dynamic compression Test results as follows STATIC #1 65/80 #2 71/80 #3 73/80 #4 67/80 #5 72/80 dynamic #1 110psi #2 125psi #3 130psi #4 120psi #5 125psi #6 135psi Instal Preformed bore scope inspection all cyls appear OK. installed spark plugs. Returned to service. Balby & Cooper ADP 456 949643

DATE 19 47	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
16 JAN	4774			Removed #1 Cyl. Installed complete steel assembly. Rebuilt by ECI Repair station AG 2 B 689A under WO #59551-01. Installed new Rings, new gaskets & seals. All work done in accordance with Manufacturers overhaul instructions. Preformed ground run and leak check all OK. Balby & Cooper ADP 456 949643

AERO ONE #2 - 308 Airport Loop, Twin Falls, ID 83301

DATE
19__

Engine: TSIO-520-NB S/N 290544R Tach :395.7 Date: 07-02-97

Changed oil and filter - serviced engine with 12 qt's 20/50 X-C Phillips oil - installed a new CH48109 oil filter - cut open the old filter, no foreign material was present - took a oil sample by tube and sent in for analysis - ran a compression check #1 48/80 #2 65/80 #3 65/80 #4 67/80 #5 65/80 #6 63/80, couldn't detect any leakage by the valves, all leakage seemed to be going by the rings - cleaned and gapped top spark plugs, installed plugs - washed engine with solvent - test ran engine, no visable oil leaks were found - returned engine to service

Rick Robinette *Rick Robinette* A&P518583365IA

-----**END**-----

NUMBER OF
TRIES.)

DATE

19__

AERO ONE #2 - 308 Airport Loop, Twin Falls, ID 83301

OF
PAGES.)

Engine: TSIO-520-NB S/N 290544R Tach :406.8 Date: 07-07-97

Ran a compression check #1 44/80 #2 58/80 #3 60/80 #4 57/80 #5 58/80 #6 60/80, all leakage seems to be going by the rings

Date: 07-08-97

IAW Jimmy Tubs instructions of ECI; San Antonio, Texas; sprayed WD-40 oil in the cylinders and took another compression check, theory was that cylinders may be running to dry #1 44/80 #2 51-80 #3 52/80 #4 45/80 #5 52/80 #6 45/80 - installed spark plugs and returned the engine to srvice

Rick Robinette *Rick Robinette* A&P518583365IA

-----**END**-----

DATE 19 <u>97</u>	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
<u>6/18/97</u>	<u>Tach</u>	<u>357.5</u>		<u>Removed (6) Cylinders due to low</u>
	<u>T.T.</u>	<u>808.9</u>		<u>Compression. Cylinders Cleaned, inspected</u>
	<u>TSM</u>	<u>431.8</u>		<u>Repaired by replacing (6) Exhaust Valves,</u>
	<u>Compression Readings</u>			<u>Rings & Gaskets. Cylinders Reinstalled &</u>
	<u>this date</u>			<u>Torqued per TCM Recommendations. Engine</u>
<u>#1</u>	<u>70/80</u>			<u>Service with Phillips XC 20/50 & CA 45108</u>
<u>#2</u>	<u>72/80</u>			<u>oil filter. Washed Engine, Test flown</u>
<u>#3</u>	<u>72/80</u>			<u>& Reinspected for Leaks. Found No Leaks - this</u>
<u>#4</u>	<u>72/80</u>			<u>Engine was found to be in very satisfactory condition</u>
<u>#5</u>	<u>73/80</u>			<u>& deemed safe return to service. Records all</u>
<u>#6</u>	<u>72/80</u>			<u>on file at this repair station under</u>
				<u>W/O # 06137-1W. Harold & Carter</u>

WICK CARTER
ENGINES, INC.

FAA CERTIFIED REPAIR
STATION No. RF4R1004

ENGINE RECORD -- GENERAL INFORMATION

MANUFACTURER Teledyne Continental MODEL T510-520-NB

SERIAL 290544R TYPE CERTIFICATE _____

THIS ENGINE IS CURRENTLY INSTALLED IN AIRCRAFT N305PF

MINIMUM OCTANE FUEL _____ OIL GRADE SUMMER _____ WINTER _____

MAGNETO TIME _____ POINT SETTING _____ FIRING ORDER _____

SPARK PLUG GAP _____

MFG. RECOMMENDED OVERHAUL AT _____ HOURS.



ENGINES, INC.
2110 WEST "G" STREET
ELIZABETHTON, TENNESSEE 37643
423-542-2811

ENGINE LOG

Log book # 1

TELEDYNE CONTINENTAL



Gold Medallion Aircraft Engine

1195220

REBUILT ENGINE LOG

~~1195220~~

AIRCRAFT N NUMBER

T51C-540-A/B

ENGINE MODEL NUMBER

290544-R

ENGINE SERIAL NUMBER

ENGINE LOG

DATE

Gro

AERO ONE #2 - 308 Airport Loop, Twin Falls, ID 83301

Engine: TSIO-520-NB Tach : 301.5 Hobbs: 3389.3 Date: 04-22-97
S/N: 290544-R

Changed oil and filter, serviced engine with 12 qt's of 20/50 X-C Phillips oil, installed a new CVh48108 filter, cut open old filter, no foreign material was present, took a oil sample and sent it to Oil Analysis Lab., Inc. for analysis; Run a compression check #1 62/80 rings #2 59/80 ex & rings #3 68/80 rings #4 68/80 rings #5 62/80 in & rings #6 68/80 rings; Performed a 50 hour inspection of the engine; Performed a complete fuel system check, found that the deck pressure seal on #5 cyl was deformed when the fuel line "B" nut was tightened and the washer on the seal allowed to rotate and the #1 cyl injector was leaking at the threads, installed a new seal and removed the inj inspected, applied sealant to threads, installed and torqued; Cleaned and gapped spark plugs, installed using new gaskets; Washed engine with solvent, test ran proved satisfactory and no visible oil leaks were found

Rick Robinette

Rick Robinette

A&P518583365IA

-----END-----

New log ISSUED 06/13/97

SIGNATURE

LICENSE
NUMBER


BROUGHT FC


TC

ENGINE LOG

ENGINE LOG

DATE	R.F	NATURE	LICENSE NUMBER
	Ground		
		Aero One #2	
		Tech: 50.1 Hobbs: 3394.3 8-31-96 Engine N305PF	
		1. Changed oil and filter. 2. Checked filter for foreign material. No foreign material was found. 3. Washed engine with solvent. 4. Ran engine and checked for leaks. None were found. 5. Serviced engine with 12 quarts oil (100W non detergent). 6. Compression check showed: #1: 65/80; #2: 67/80; #3: 63/80 #4: 63/80; #5: 66/80; #6: 68/80. 7. #1 valve cover leaks oil. 8. Removed valve cover. 9. Cleaned gasket with 100 octane. 10. Applied High Heat Silicone gasket sealer and reinstalled.	
		Engine was returned to service. See Aero One #2 W/O 05419.	

DATE	Gro	NATURE	LICENSE NUMBER
		Aero One #2	
		Tech: 70.6 Hobbs: 3394.7 9-12-96 Engine N305PF	
		1. Changed oil and filter. 2. Checked filter for foreign material. No foreign material was found. 3. Serviced engine with 12 quarts oil 100W (detergent.) 4. Compression check showed: #1: 64/80; #2: 66/80; #3: 63/80 #4: 63/80; #5: 65/80; #6: 69/80. 5. 50 hour inspection was completed on engine. 6. Intake push rod tube leaked on #4 cyl., rotated push rod to seat washers against gaskets.	
		Engine was returned to service. See Aero One #2 W/O 05420.	
		Rick Robinette  A&P518583365IA	

BROUGHT FORW
TOTA Rick Robinette  A&P518583365IA
-----END-----

BROUGHT FC
TC -----END-----

(743) ✓ ENGINE LOG

DATE	R.P.M.		TIME ON GROUND			TIME IN AIR			TOTAL TIME		REPAIRS - ADJUSTMENTS	SIGNATURE	LICENSE NUMBER
	Ground	Air	Hrs.	Min.	Total	Hrs.	Min.	Total	Hrs.	Min.			
96 6-28			11	33	3	1	39	2	5		ENGINE DISASSEMBLED AND CLEANED AT THIS TIME FOR PROP STRIKE INSPECTION. ALL INTERNAL STEEL PARTS WERE MAGNAFLUX INSPECTED. ALL NON-FERROUS PARTS WERE VISUALLY OR ZYGLO INSPECTED. ALL EXTERNAL PARTS SUBJECT TO CORROSION, WERE PRIMITED OR CADMIUM PLATED. ALL AIR WORTHINESS DIRECTIVES HAVE BEEN COMPLIED WITH. ENGINE WAS ASSEMBLED I/A/W THE MANUFACTURERS PARTS AND OVERHAUL MANUALS AND CURRENT REGULATIONS OF THE FEDERAL AVIATION AGENCY. ENGINE WAS TEST RUN SATISFACTORY FOR 2.0 HRS. THIS ENGINE IS APPROVED FOR RETURN TO SERVICE. PERTINENT DETAILS OF THIS OVERHAUL ARE ON FILE AT THIS REPAIR STATION UNDER SHOP WORK ORDER # 05216-41 Robert Carter FOR: NICK CARTER ENGINES, INC. FAA CERTIFIED REPAIR STATION No. RF4R490M		
BROUGHT FORWARD													
TOTALS													

NICK CARTER ENGINES, INC.
2110 WEST "G" STREET
ELIZABETHTON, TN 37643
FAA CRS# RF4R490M

PROP STRIKE REPAIR

NCE PARTS LIST

DATE: 06/28/96
09:23

WORK ORDER #: 05216-41

ENGINE MODEL: TS10-520-NB CUST #: B2244
SERIAL NUMBER: 290544-R IRWIN FEHERR

QUANTITY	PART NUMBER	DESCRIPTION
12	273	SPARK PLUG
1	6-CYL-I	LOW COST SUPPLIES
1	630899	BEARING, STARTER
1	632977/R	OIL PUMP HSG REWORK
1	642085A8NCR	STR ADPT ASM>>
1	653490	STUD ADAPTER, OIL FILTER
1	BL-349220-5	S6RN-1201
1	BL-349260-6	S6RN-1205
2	CH48108	OIL FILTER
12	MS24665-229	COTTER PIN
1	MS35756-8	WOODRUFF KEY, PROP. GOV.
1	SA5000-AS	RING SET
6	SA536379	SCREW, CRANKSHAFT
4	SA631088-.44	SCREW, CAMSHAFT
8	SA632443A-4	NUT, MARSDEN
4	SA638172	BUSHING, MAGNETO
1	SA641250	SEAL ASSY
12	SA642398	BEARING, ROD
12	SA642398 M10	BEARING, ROD (STEP UP)
24	SA643967	NUT, EXHAUST
1	SA646550-A1	GASKET SET
1	SA646592-A1	BEARING SET, MAIN
1	SA646592-A1 M10	BEARING SET (STEP UP)
4	SA649205	SCREW, ALTERNATOR FACE
1	SBIPPING (6-T)	FREIGHT IN/OUT PARTS-REPA
1	ZINC-PLATE	PARTS AND COMPONENTS

ENGINE LOG

TIME IN AIR	TOTAL TIME	REPAIRS - ADJUSTMENTS	SIGNATURE	LICENSE NUMBER
ENGINE TEST RUN RECORD				
Engine Model #	TS10-520-NB			
Engine Serial #	290544-R			
Work Order #	05216-41			
RPM @ Idle	650	RPM @ High	2700	
Oil Pressure @ Idle	43	Oil Pressure @ High	58	
Oil Temp. @ Idle	75°	Oil Temp. @ High	88	
Cyl. Head Temp. @ Idle	220	Cyl. Head Temp. @ High	270	
Mag. Drop @ 1200 RPM	100	Mag. Drop @ 1700 RPM	100	
		Total Run Time	2HR	
Test Run Operator	JCW			
Overall Acceptance	AC			
Date:	6-28-96			
		FAA CRS #RF4R490M		

NICK CARTER ENGINES, INC.
2110 WEST G STREET - ELIZABETHTON, TENN 37643
PHONE (615) 642-2811 DAY - (615) 643-2891 NIGHT
SERVICE ENGINE OVERHAUL RECORD AND
INSPECTION FOR OPPOSED ENGINES

ENGINE LOG

ENGINE LOG

(NCE FORM 11251 REV.1)

NICK CARTER ENGINES, INC.
2120 WEST "G" STREET
ELIZABETHTON, TN 37643

FAA-CRS# RF4R490M

PROP STRIKE REPAIR

DATE: 10/24/95

WONUM: 09295-60

ENGINE MODEL: TS10-520-NB
CUSTNUM: B2244

SERIAL NO.: 290544-R
NORM GAVIN

PART NUMBER	DESCRIPTION	QTY
6-CRANK	6 CYL REGRIND CRANKSHAFT	1
6-CYL-T	LOW COST SUPPLY	1
629680M10	COLLAR	1
629748	GEAR (PROP GOV. DRIVE)	1
630899	BEARING	1
639407	BODY (SCAVENGE PUMP)	1
646476/R	CONN. ROD	1
BL-349220-5	S6RN-1201	1
BL-349260-6	S6RN-1205	1
CH48108	OIL FILTER	2
RG-534857	GASKET RUBBER	6
SA536379	SCREW	6
SA628109	NUT	12
SA629340	BOLT	12
SA631088-.44	SCREW	4
SA641250	SEAL ASSY	1
SA641909	PLATE	2
SA642398	BEARING	12
SA642398 M10	BEARING (STEP UP)	12
SA643967	NUT (EXHAUST)	24
SA646550-A1	GASKET SET	1
SA646592-A1	BEARING SET	1
SA646592-A1 M10	BEARING SET (STEP UP)	1
SA649205	SCREW	4

INV-E
APPR FOR B
PULLE

D

ENGINE DISASSEMBLED AND CLEANED AT THIS TIME FOR MAJOR OVERHAUL. ALL INTERNAL STEEL PARTS WERE MAGNAFLUX INSPECTED. ALL NON-FERROUS PARTS WERE VISUALLY OR ZYGLO INSPECTED. ALL EXTERNAL PARTS, SUBJECT TO CORROSION, WERE PAINTED OR CADMIUM PLATED. ALL APPLICABLE AIRWORTHINESS DIRECTIVES, FACTORY SERVICE BULLETINS, LETTERS AND INSTRUCTIONS HAVE BEEN COMPLIED WITH. ENGINE WAS ASSEMBLED IN ACCORDANCE WITH THE MANUFACTURERS PARTS AND OVERHAUL MANUALS AND CURRENT REGULATIONS OF THE FEDERAL AVIATION AGENCY. ENGINE WAS TEST RUN SATISFACTORILY 2.0 hrs. THIS ENGINE IS APPROVED FOR RETURN TO SERVICE. PERTINENT DETAILS OF THIS OVERHAUL ARE ON FILE AT THIS REPAIR STATION UNDER SHOP WORK ORDER # 09295-60

Signed Robert A. Carter For:
Dated 11-1-95
TTE 381.1
SMOH 2.0
NICK CARTER ENGINES, INC.
2110 West "G" Street
Elizabethton, TN 37643
(615) 542-2811 FAA CRS RF4R490M

BR	TOTALS								
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DATE	R.P.M.		TIME ON GROUND			TIME IN AIR			TOTAL TIME		REPAIRS - ADJUSTMENTS	SIGNATURE	LICENSE NUMBER
	Ground	Air	Hrs.	Min.	Total	Hrs.	Min.	Total	Hrs.	Min.			
9-20-95											N9522U		
A/C TACK 1061.8 Hrs. 8 Min. A/C HOURS 3390.7 ENGINE TOTAL THIS ENGINE WAS INVOLVED IN A PROPELLER TIP STRIKE AT THIS TOTAL TIME. THE AIRCRAFT HAD A NOSE WHEEL FAILURE WHILE TAXING. THE OWNER MR IRU FEHER HAS BEEN NOTIFIED AND IT IS MY RECOMMENDATION THAT THIS ENGINE BE DISSASSEMBLED AND INSPECTED PER T.C.M. MANDATORY S.B. 1184-16. I DEEM THIS ENGINE TO BE UNAIRWORTHY IN MY BEST OPINION UNTIL THIS WORK IS ACCOMPLISHED. <u>ATK. # 388703431</u>													
BROUGHT FORWARD													
TOTALS													

ENGINE LOG

DATE	R.P.M.		TIME ON GROUND			TIME IN AIR			TOTAL TIME		REPAIRS - ADJUSTMENTS	SIGNATURE	LICENSE NUMBER
	Ground	Air	Hrs.	Min.	Total	Hrs.	Min.	Total	Hrs.	Min.			
8/8/95	TACH		10	56					374.0		T.S.O.H 200 (199.5)		
<p style="margin-left: 100px;">DRAINED OIL - INSTALLED PIN BT107R (AVID) QUICK DRAIN - SERVICED ENGINE WITH 10 QTS AERO SHELL 100 W OIL I. Floyd W. Gaston AP1401569</p>													
<p style="margin-left: 100px;">N9522U..SN 25-0486..Engine SN 290544-R..Engine total time 374.41 SMOH 200.41, Tach Time 1057.11..</p>													
<p style="margin-left: 100px;">STC SE00223SE installed per manuf- ecturers instructions. See FAA Form 337 for detail. Engine returned to service.</p>													
<p style="margin-left: 100px;">AUG. 14 1995 FLOYD W. GASTON, AP1401569IA</p>													
BROUGHT FORWARD													
TOTALS													

ENGINE LOG

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23 AUG 95	TACH TIME		10	00	12				377.42		203.42 SMOH		
<p style="margin-left: 100px;">COMPRESSION TESTED #1 60/80 #2 68/80 #3 68/80 #4 66/80 #5 70/80 #6 60/80 REPLACED ALL SPARK PLUGS, REPLACED BRACKET AIR FILTER ELEMENT. LUBE & CHECKED ALL ENGINE CONTROLS FOR FREEDOM OF MOVEMENT & SPECIFIED TRAVEL. REPLACED FUEL INJECTOR SEALS ON CYLINDERS # 2, #4 & #6. INSPECTED FUEL SCREENS, CLEANED & REINSTALLED SAME. CHECKED MAGNETO TIMING, TESTED IGNITION LEADS, C/W AD 76-07-12 IGNITION SW. OPERATED SATISFACTORY. COMPLIED WITH MANDATORY SERVICE BULLETIN # MSB-305-01 INSPECTED TURBOCHARGER MOUNT SUPPORTS & TRANSITION - REPLACED TRANSITION DUE TO CRACKS, WITH NEW TRANSITION P/N 305-01-507MS REV D. NEXT INSPECTION DUE AT 1160.12 TACH TIME I CERTIFY TEST RAN ENGINE, NO DEFECTS NOTED, I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 HR. INSPECTION AND DETERMINED TO BE IN AN AIRWORTHY CONDITION. Floyd W. Gaston IA 7530129E</p>													
BROUGHT FORWARD													
TOTALS													

ENGINE LOG

ENGINE LOG

DATE	R.P.		ATURE	LICENSE NUMBER
	Ground			
		AVI, Twin Falls, ID		
	Tach: 973.3	Date: 05-12-95	Engine	N9522U
<p>Drained oil, removed filter and cut open to inspect. No foreign material found. Oil sample taken for analysis. Installed new filter P/N CH48108 and serviced engine with 12 qts 15x50 Aero Shell oil. Installed new engine vibration isolators by Barry P/N 94030-01 and four new bolts. Engine was washed with solvent and test run. No leaks found. Cowled aircraft and test flew. Vibration was minimal. Engine was returned to service.</p>				
	Rick Robinette	<i>Rick Robinette</i>		518583365IA
-----END-----				
BROUGHT FORW/				
TOTAL				

DATE	R.P.		ATURE	LICENSE NUMBER
	Ground			
		AVI, Twin Falls, ID		
	Tach: 1036.32	Hobbs: 3390.1	07-21-95	Eng N9522U
<p>Drained oil, removed filter and cut open to inspect. No foreign material found. Oil sample was taken for analysis. Installed new filter P/N CH48108 and serviced engine with 12 qts 100W Shell oil. Engine was washed with solvent and test run. No leaks found. Engine returned to service. See AVI work order #5766.</p>				
	Rick Robinette	<i>Rick Robinette</i>		518583365IA
-----END-----				
BROUGHT FOR				
TO				

ENGINE LOG

DATE	R.P.M.		TIME ON GROUND			TIME IN AIR			TOTAL TIME		REPAIRS - ADJUSTMENTS	SIGNATURE	LICENSE NUMBER
	Ground	Air	Hrs.	Min.	Total	Hrs.	Min.	Total	Hrs.	Min.			
8-15-94	TACH		ENGINE			MODEL			TS10 520-NB		SENA 290544-R		
	TSMOH 1738		REMOVED FROM AIRCRAFT			N 252BQ			MODEL		M 20K		
	TSMOH 832.4		S/N 251140 THIS DATE										
	TAF	TAF											
10/21/94	TSMOH 834.4		Engine disassembled and checked at this time for repair due to a prop. strike. All internal steel parts were magnalux inspected. All non-ferrous parts were visually inspected. All applicable airworthiness directives and factory service bulletins have been complied with. Engine was assembled in accordance with the manufacturers parts and overhaul manuals and current regulations of the Federal Aviation Agency. Engine was test run satisfactorily for 2.0 hours. Pertinent details of this repair are on file at this repair station under shop work order 08224-47. See attached list of new parts installed during this repair.										
												NICK CARTER ENGINES, INC. FAA CERTIFIED REPAIR STATION No. RF4R490M	
			End										
BROUGHT FORWARD													
TOTALS													

(NCE FORM 11251 REV.1)

NICK CARTER ENGINES, INC.
2120 WEST "G" STREET
ELIZABETHTON, TN 37643

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CUSTNUM: C0941	NORM GEVIN																																																		
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<p>ine Model # <u>TS10-520-NB</u></p> <p>ine Serial # <u>290544-R</u></p> <p>Order # <u>08224-47</u></p> <p>l @ Idle <u>600 rpm</u> RPM @ High <u>2700 rpm</u></p> <p>Pressure @ Idle <u>40 psi</u> Oil Pressure @ High <u>36 psi</u></p> <p>Temp. @ Idle <u>150°F</u> Oil Temp. @ High <u>180°F</u></p> <p>Head Temp. @ Idle <u>325°F</u> Cyl. Head Temp. @ High <u>381°F</u></p> <p>Drop @ 1200 RPM <u>75 rpm</u> Mag. Drop @ 1700 RPM <u>75 rpm</u></p> <p>Total Run Time <u>2.0 hrs</u></p> <p>Run Operator <u>RR</u></p> <p>ll Acceptance <u>ZB</u></p> <p>10/21/94</p> <p>FAA CRS #RF4R490M</p>																																																			
<p>NICK CARTER ENGINES, INC.</p> <p>2116 WEST G STREET - ELIZABETHTON, TENN 37643</p> <p>PHONE (615) 542-2811 DAY - (615) 543-2891 NIGHT</p> <p>SERVICE ENGINE OVERHAUL RECORD AND INSPECTION FOR OPPOSED ENGINES</p>																																																			
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ENGINE LOG

DA

MAKE TCM MODEL TS10-520NB SERIAL NO./N. NO. 290544

TACH READING 120.2 DATE 22 APR 94

ENGINE DISASSEMBLED, CLEANED, INSPECTED
AND REPAIRED AS NECESSARY FOR
SUDDEN STOP. ENGINE TEST RUN OK
THIS DATE.

NOTE: This engine was torn down due to a prop tip strike
The engine was NOT subjected to a sudden stoppage.

MATTITUCK AIRBASE INC.
F.A.A. Repair Station QX2R125L
W.O. No. 11827



Stephen M. Kelly
Authorized Signature

LICENSE NUMBER

TOTALS

ENGINE LOG

DATE	R.P.M.		TIME ON GROUND			TIME IN AIR			TOTAL TIME		REPAIRS - ADJUSTMENTS	SIGNATURE	LICENSE NUMBER
	Ground	Air	Hrs.	Min.	Total	Hrs.	Min.	Total	Hrs.	Min.			
											AVIATION MAINT INC. EAST HADDAM, CT. 06423 N252BQ		
											DATE <u>5/18/94</u> TACH/LOGS <u>120.2</u> THIS DATE INSTALLED ENGINE MODEL #TS10-520-NB, S/N 290544 IN AIRCRAFT N252BQ, MODEL #M20K, S/N 25-1140 IAW ROCKET ENGINEERING STC NUMBER SA5691NM, PROJECT 305.0029. ENGINE WAS INSPECTED FOR SUDDEN STOPPAGE AT MATTITUCK AVIATION AND DETAILS OF INSPECTION ARE ON FILE UNDER MATTITUCK AVIATION WORK ORDER #11827. ENGINE WASHED, RUN-UP, ADJUSTED IDLE SPEED & MIXTURE, LEAK CHECKED, OK.		
											I.A./A&P #37402284 STEPHEN M. KELLY <i>SMK</i>		
BROUGHT FORWARD													
TOTALS													

BROUGHT FORWARD

TOTALS

ENGINE DESCRIPTION

TYPE _____ MODEL TS10-520-NB SERIAL NO. 290544-R
 RATED H.P. _____ MAXIMUM H.P. _____
 RATED R.P.M. _____ MAXIMUM R.P.M. _____ OIL PRESSURE _____
 BORE _____ STROKE _____ DISPLACEMENT _____ CU. IN. _____
 COMPRESSION RATIO _____ GEAR RATIO _____
 PROPELLER _____ HUB DESIGN _____ HUB SERIAL NO. _____
 BLADE DESIGN _____ BLADE SERIAL NO. _____ BLADE SERIAL NO. _____
 MAXIMUM HUB H.P. _____ MAXIMUM BLADE H.P. _____
 PITCH _____ DIAMETER _____ LENGTH _____
 OWNERS NAME _____
 ADDRESS _____ CITY _____ STATE _____

ENGINE LOG

DATE	R.P.M.		TIME ON GROUND			TIME IN AIR			TOTAL TIME		REPAIRS - ADJUSTMENTS	SIGNATURE	LICENSE NUMBER
	Ground	Air	Hrs.	Min.	Total	Hrs.	Min.	Total	Hrs.	Min.			
30 June 1993.													
Tach time 00.00, Total time 658.6. This engine was installed on N252BQ as a part of STC SA5691NM. Ground run up check satisfactory. Engine is airworthy and is placed in service.													
<i>Maynard G. Lerner</i> MAYNARD G. LERNER, AP502205376IA													
7/26/93											32 tach oil / Filter 12 Asst 01/150 changed		
Run up & function tested properly! Gregory J. Mutam AOP 49608263 - End-													
BROUGHT FORWARD													
TOTALS													

This engine model TSIO520NB18B, Serial No. 290544-R, was rebuilt/zero timed on 05/10/93 by Teledyne Continental Motors in accordance with an FAA approved Quality Control System, using FAA approved Engineering design data and the applicable requirements of FAR Part 21 of the Federal Aviation Regulations. The approved design data for this engine incorporated the following Service Bulletins and Airworthiness Directives.

SB	AD	REMARKS	SB	AD	REMARKS
M79-2	79-05-09	REPLACED WITH NEW PART	N/A	91-19-03	OIL FILTER CHANGE
M80-26	81-24-06	TORQUE CHECK	M92-6	N/A	ROCKER SHAFT RETENTION IMPROVEMENT
M82-5	82-09-01	VISUAL / FUEL SEEPAGE	M92-14	N/A	VISUAL INSPECTION FOR DATE
M86-7	86-13-04	REPLACE WITH NEW PARTS	M93-9	N/A	PROPER SHAFT & COUPLING INSTALLED
M87-5	87-23-08	CRANKSHAFT ULTRASONIC INSPECTION			
M88-4	88-03-06	REPLACED WITH NEW PARTS			
M90-6	89-24-01	REPLACED WITH NEW PARTS			
M90-21	N/A	ULTRASONIC INSPECTION OF BARRELS			
M91-6	N/A	ULTRASONIC INSPECTION OF BARRELS			
M91-7	N/A	ULTRASONIC INSPECTION OF BARRELS			

Records reflecting this rebuilding are on file at Teledyne Continental Motors, P.O. Box 90, Mobile, Alabama, 36601.

TELEDYNE CONTINENTAL MOTORS
PRODUCTION CERTIFICATE NO. 708

Walter Fogel