

N4904

# PLATINUM ENGINE LOG BOOK



**CONTINENTAL MOTORS**



# PLATINUM ENGINE LOG BOOK



## CONTINENTAL MOTORS

**USE ONLY FUEL CONFORMING TO ASTM D910  
USE OF AUTOMOTIVE GAS IS NOT APPROVED.**



**Teledyne Continental Motors, Inc.**  
A Teledyne Technologies Company

Printed: 12/02/2007

This engine model I0550N50, Serial No. 691495 was manufactured on 11/30/2007 by Teledyne Continental Motors in accordance with approved design data and the applicable requirements of Part 21 of the Federal Aviation Regulation. The approved design data for this engine incorporates all changes required by applicable Airworthiness Directives and Teledyne Continental Motors Service Bulletins.



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**TELEDYNE CONTINENTAL MOTORS**

A TELEDYNE TECHNOLOGIES COMPANY

PRODUCTION CERTIFICATE NO. 508







March 26 2008  
N924CT  
S/N 2921  
Hobbs Time: 51.6

Brought

1. Drained engine oil, removed and examined oil filter. No contamination found. Serviced with 8qts Aeroshell 15W50 oil and new CH48108 oil filter. Run up leak check satisfactory.
2. Performed 50 hour inspection in accordance with Cirrus SR22 AMM Chapter 05.

END



Erie Municipal Airport  
395 Airport Drive  
Erie, CO 80516

Record  
ctions,

Terrill Shafer  
IA2860279

May 21, 2008  
N4904  
S/N 2924  
Flight time: 100.7

1. C/W Cirrus 100 hour scheduled maintenance checks and inspection in accordance Cirrus SR22 AMM Chapter 05. Inspected aircraft exhaust, fuel and oil systems, landing gear, structure, wings, control systems and overall aircraft condition.
2. Replaced Right main tire and tube, Condor 15X6x6.
3. Replaced Brake caliper O-rings 101-034500.
4. Clean and serviced air filter.

END



Erie Municipal Airport  
395 Airport Drive  
Erie, CO 80516

  
Jonathan Carlisle  
AP3063926

July 21 2008  
N924CT  
S/N 2921  
Hobbs Time: 153.1

1. Drained engine oil, removed and examined oil filter. No contamination found. Serviced with 8qts Aeroshell 15W50 oil and new CH48108 oil filter. Run up leak check satisfactory.
2. Performed 50 hour inspection in accordance with Cirrus SR22 AMM Chapter 05, and Tornado alley 50 hour inspection.
3. Installed all new spark plugs, URHB30E. Retimed Magnetos to engine.

END



Erie Municipal Airport  
395 Airport Drive  
Erie, CO 80516

  
Terrill Shafer  
IA2860279

September 17 2008  
N4904  
S/N 2924  
Flight time: 203.5

1. C/W Cirrus 100 + 200 hour scheduled maintenance checks and inspection in accordance Cirrus SR22 AMM Chapter 05-20 schedule maintenance checks and inspection, and Tornado Alley Inc 100/200 hour items. C/W applicable TCM SB's.
2. Drained engine oil, removed and examined oil filter. No contamination found. Serviced with 8qts Aeroshell 15W50 oil and new CH48108 oil filter.
3. Compression test: #1 72/80 #2 75/80 #3 77/80 #4 76/80 #5 75/80 #6 77/80. Borescoped cylinders for defects, none noted. Visual inspection of overall engine installation, engine controls, mounts, fuel and oil lines was o.k. Wash down engine. Run-up/leak check o.k. A list of AD's may be found in aircraft records. I certify this engine has been inspected in accordance with a Cirrus 100/200 Hour Inspection and is approved for return to service.

END



Erie Municipal Airport  
395 Airport Drive  
Erie, CO 80516

  
Terrill Shafer  
IA2860279



D: October 23 2008  
N4904  
S/N 2924  
Flight time: 249.9



Erie Municipal Airport  
395 Airport Drive  
Erie, CO 80516

Brought

1. C/W Cirrus 50 hour scheduled maintenance checks and inspection in accordance Cirrus SR22 AMM Chapter 05-20 schedule maintenance checks and inspection, and Tornado Alley Inc 50 hour items. C/W applicable TCM SB's.
2. Drained engine oil, removed and examined oil filter. No contamination found. Serviced with 8qts Aeroshell 15W50 oil and new CH48108 oil filter.

Visual inspection of overall engine installation, engine controls, mounts, fuel and oil lines was o.k. Wash down engine. Run-up/leak check o.k. A list of AD's may be found in aircraft records. I certify this engine has been inspected in accordance with a Cirrus 50 Hour Inspection and is approved for return to service.

END

Terrill Shafer  
IA2860279

January 20 2009  
N4904  
S/N 2924  
Flight time: 305.0



Erie Municipal Airport  
395 Airport Drive  
Erie, CO 80516

1. Removed engine IO-550-N, S/N 691495 from N4904 Cirrus SR22 S/N 2924 for alternator face gear damage. Engine sent to Western Skyways Inc. for repair.

END

Terrill Shafer  
IA2860279



**WESTERN**  
*Skyways*  
INC.

GOLD SEAL AIRCRAFT ENGINES

21 Creative Place Montrose, CO 81401 CRS # WS9R575J

Engine Model: IO-550-N

Serial Number: 691495

Time: 305.0 Hrs TSN

Work Order: 24295

Date: 02/27/2009

This engine was disassembled for metal contamination. All parts were cleaned and inspected. Crankcase M/N: R07JA225 was cleaned and visually inspected, found okay. Crankshaft S/N: N07HA864 was cleaned, visually and ultrasonic inspected per MSB96-10A and AD97-26-17. Engine was reassembled using new rod and main bearings, new rod bolts and nuts, counterweight pins, plates and snap rings, new gaskets and seals as necessary. Replaced alternator face gear P/N: 632018 with used serviceable component and new bolts P/N: 649205. Replaced the oil cooler with a Positech overhauled S/N: H07-5672-520. Replaced oil pump housing P/N: 632977 with used serviceable component. Honed and re-ringed cylinders ring set P/N: 654716. Accessories were cleaned and visually inspected. Installed new alternator hub assembly P/N: 646655A1. Prop governor S/N: 040539 was repaired and inspected by Maxwell Aircraft Services WO# 113402. Engine was run in a test cell for leak and operations check. All work was done IAW Continental Overhaul Manual X30568A and applicable Service Bulletins.

The engine and/or component identified above was repaired and inspected IAW current FAA Regulations and found Airworthy for return to service. Pertinent details of this repair are on file at this repair station under above work order.

Signed:



March 20 2009  
N4904  
S/N 2924  
Flight time: 305.0



Erie Municipal Airport  
395 Airport Drive  
Erie, CO 80516

Brought

1. Re-installed engine IO-550-N, S/N 691495 on N4904 Cirrus SR22 S/N 2924 for following repairs by Western Skyways Inc.  
See log book entry dated 02/27/09.
  2. Performed a 100hr inspection of engine for annual of N4904 in accordance with FAR 43 appdx D and Cirrus SR22 AMM Chapter 05-20 schedule maintenance checks and Tornado alley 50 hour inspection items. C/W applicable TCM SB's.
  3. Serviced with 8qts Aeroshell 100 Straight Mineral oil and new CH48108 oil filter.
  4. Installed new starter drive adapter P/N 642085-1A1.
- Visual inspection of overall engine installation, engine controls, mounts, fuel and oil lines was o.k. Wash down engine. Run-up/leak check o.k. Flushed all oil hoses and lines. A list of AD's may be found in aircraft records. I certify this engine has been inspected in accordance with a 100hr inspection and determined to be in airworthy condition.

END

Terrill Shafer  
IA2860279

May 4 2009  
N4904  
S/N 2924  
Flight time: 327.9 Hobbs: 392.1



Erie Municipal Airport  
395 Airport Drive  
Erie, CO 80516

1. C/W Cirrus 25 hour scheduled maintenance checks and inspection in accordance Cirrus SR22 AMM Chapter 05-20 by completing 100 hours inspection of engine, and Tornado Alley Inc. 50 hour items following first 25 hours after engine install.
  2. Drained engine oil, removed and examined oil filter. No contamination found. Serviced with 8qts Aeroshell 15W50 oil and new CH48108 oil filter.
  3. Compression test: #1 75/80 #2 78/80 #3 78/80 #4 76/80 #5 76/80 #6 77/80. Borescoped cylinders for defects, none noted.
- Visual inspection of overall engine installation, engine controls, mounts, fuel and oil lines was o.k. Wash down engine. Run-up/leak check o.k. A list of AD's may be found in aircraft records. I certify this engine has been inspected in accordance with a 100hr inspection and determined to be in airworthy condition.

END

Terrill Shafer  
IA2860279

May 18 2009  
N4904  
S/N 2924  
Flight time: 348.1 Hobbs: 415.1



Erie Municipal Airport  
395 Airport Drive  
Erie, CO 80516

1. C/W Cirrus 50 hour scheduled maintenance checks and inspection in accordance Cirrus SR22 AMM Chapter 05-20 schedule maintenance checks and inspection, and Tornado Alley Inc 50 hour items. C/W applicable TCM SB's.
  2. Drained engine oil, removed and examined oil filter. No contamination found. Serviced with 8qts Aeroshell 15W50 oil and new CH48108 oil filter.
- Visual inspection of overall engine installation, engine controls, mounts, fuel and oil lines was o.k. Wash down engine. Run-up/leak check o.k. A list of AD's may be found in aircraft records. I certify this engine has been inspected in accordance with a Cirrus 50 Hour Inspection and is approved for return to service.

END

Jonathan Carlisle  
AP3063926



August 21 2009  
N4904 S/N 2924  
TCM IO550N50 S/N: 691495  
Flight meter: 396.5 Hobbs: 472.3

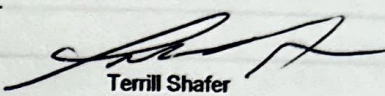


Erie Municipal Airport  
395 Airport Drive  
Erie, CO 80516

1. Performed a 100hr inspection of engine for N4904 in accordance with FAR 43 appdx D and Cirrus SR22 AMM Chapter 05-20 schedule maintenance checks and Tornado alley 100 hour inspection items. C/W applicable TCM SB's SB96-12, SB95-2, SID05-7, SID97-3E.
2. Performed cylinder compression test #1 75/80 #2 74/80 #3 74/80 #4 73/80 #5 72/80 #6 75/80.
3. Drained engine oil, removed and examined oil filter. No contamination found. Serviced with 8qts Aeroshell 15W50 oil and new CH48108 oil filter.
4. Replace all spark plugs. URHB32E.

Visual inspection of overall engine installation, engine controls, mounts, fuel and oil lines was o.k. Wash down engine. Run-up/leak check o.k. Flushed all oil hoses and lines. A list of AD's may be found in aircraft records. I certify this engine has been inspected in accordance with a Cirrus Maintenance 100hr inspection and determined to be in airworthy condition.

END

  
Terrill Shafer  
IA288A279

January 19 2010  
N4904 S/N 2924  
TCM IO550N50 S/N 691495  
Flight time: 450.1 Hobbs: 535.1

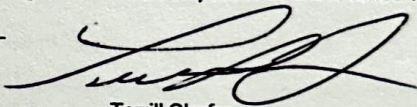


Erie Municipal Airport  
395 Airport Drive  
Erie, Colorado 80516

1. C/W Cirrus 50 hour scheduled maintenance checks and inspection in accordance Cirrus SR22 AMM Chapter 05-20 schedule maintenance checks and inspection, and Tornado Alley Inc 50 hour items. C/W applicable TCM SB's.
2. Drained engine oil, removed and examined oil filter. No contamination found. Serviced with 8qts Aeroshell 15W50 oil and new CH48108 oil filter.

Visual inspection of overall engine installation, engine controls, mounts, fuel and oil lines was o.k. Wash down engine. Run-up/leak check o.k. A list of AD's may be found in aircraft records. I certify this engine has been inspected in accordance with a Cirrus 50 Hour Inspection and is approved for return to service.

END

  
Terrill Shafer  
AP2860279IA

April 20 2010  
N4904 S/N 2924  
TCM IO550N50 S/N 691495  
Flight time: 502.30 Hobbs: 597.4

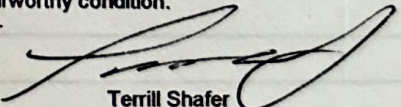


Erie Municipal Airport  
395 Airport Drive  
Erie, Colorado 80516

1. Performed a 100hr inspection of engine for annual of N4904 in accordance with FAR 43 appdx D and Cirrus SR22 AMM Chapter 05-20 schedule maintenance checks and Tornado alley 50/100 hour inspection items. C/W applicable TCM SB's SB96-12, SB95-2, SID05-7, SID97-3E.
2. Drained engine oil, removed and examined oil filter. No contamination found. Serviced with 8qts Aeroshell 15W50 oil and new CH48108 oil filter.
3. Replaced camshaft cover gasket P/N 653415.

Visual inspection of overall engine installation, engine controls, mounts, fuel and oil lines was o.k. Wash down engine. Run-up/leak check o.k. Flushed all oil hoses and lines. A list of AD's may be found in aircraft records. I certify this engine has been inspected in accordance with a 100hr inspection and determined to be in airworthy condition.

END

  
Terrill Shafer  
IA2860279

August 17 2010  
N4904 S/N 2924  
TCM IO550N50 S/N 691495  
Flight time: 555.3 Hobbs: 650.6



Erie Municipal Airport  
395 Airport Drive  
Erie, Colorado 80516

1. C/W Cirrus 50 hour scheduled maintenance checks and inspection in accordance Cirrus SR22 AMM Chapter 05-20 schedule maintenance checks and inspection, and Tornado Alley Inc 50 hour items. C/W applicable TCM SB's.
2. Drained engine oil, removed and examined oil filter. No contamination found. Serviced with 8qts Aeroshell 15W50 oil and new CH48108 oil filter.

Visual inspection of overall engine installation, engine controls, mounts, fuel and oil lines was o.k. Wash down engine. Run-up/leak check o.k. A list of AD's may be found in aircraft records. I certify this engine has been inspected in accordance with a Cirrus 50 Hour Inspection and is approved for return to service.

END

  
Jonathan Carlisle  
AP3063926IA



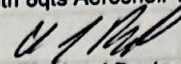
November 30, 2010  
N4904 S/N 2924  
TCM IO550N50 S/N 691495  
Flight time: 605.7



Erie Municipal Airport  
395 Airport Drive  
Erie, Colorado 80516

Brought

Drained engine oil, removed and examined oil filter. No contamination found. Serviced with 8qts Aeroshell 15W50 oil and new CH48108 oil filter. Run up leak check. -----END-----

  
Charles J Beninati  
AP2885079

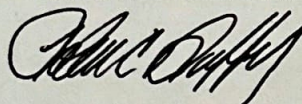
*Mountain Aircraft Maintenance, Inc*

P.O. Box 772114, Steamboat Springs, CO 80477 (970) 870-8986 Fax (970) 870-0387

**April 14, 2011 Hobbs 727.4 Flight Time & Engine Total Time 632.1**  
**N4904 TCM IO 550-N S/N 691495**

100 Hour inspection accomplished per Cirrus airplane maintenance manual chapter 05. Compressions; #1 65/80 #2 66/80 #3 62/80 #4 68/80 #5 65/80 #6 68/80 master orifice reading 37/80. Changed oil and filter, installed new CH48108-1 filter and serviced engine with Aeroshell 15W50 oil. No abnormal debris noted in old filter. Cleaned, gapped, tested and rotated spark plugs, reinstalled using annealed gaskets. Retorqued left exhaust shield clamps. Checked torque on forward engine thru bolts, oil sump and accessory pads. Installed all new rocker box cover gaskets with new. Replaced safety wire on oil drain valve. Complied with TAT SB10-02, revision A by replacement of left and right exhaust tail pipe hangers. *I certify that this engine has been inspected in accordance with a 100 Hour / ANNUAL inspection and was determined to be in airworthy condition.*

John C Duffy A&P 3491366  
I A

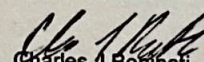


July 20 2011  
N4904 Cirrus SR22 S/N 2924  
Engine IO550N50 S/N 691495  
Fit meter: 694.4 Hobbs: 789.7



Erie Municipal Airport  
395 Airport Drive  
Erie, CO 80516

Drained engine oil removed and examined oil filter. No contamination found. Serviced with 8qts Aeroshell 15X50 oil and new CH48108-1 oil filter. -----END-----

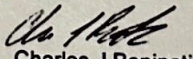
  
Charles J Beninati  
AP2885079

September 20, 2011  
N4904 Cirrus SR22 S/N 2924  
Engine IO550N50 S/N 691495  
Fit meter: 749.9



Erie Municipal Airport  
395 Airport Drive  
Erie, CO 80516

Drained engine oil removed and examined oil filter. No contamination found. Serviced with 8qts Aeroshell 15W50 oil and new CH48108-1 oil filter. -----END-----

  
Charles J Beninati  
AP2885079

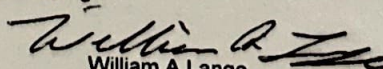
January 3 2012  
N4904 Cirrus SR22 S/N 2924  
Engine IO550N50 S/N 691495  
Fit meter: 805.5



Erie Municipal Airport  
395 Airport Drive  
Erie, CO 80516

1. Drained engine oil removed and examined oil filter. No contamination found. Serviced with 8qts Aeroshell 15W50 oil and new CH48108-1 oil filter.
2. Replaced all 12 spark plugs with new P/N URHB32E, and reset magneto to engine timing.

-----END-----

  
William A Lange  
AP2712036



May 4 2012  
N4904 S/N 2924  
Engine IO550N50 S/N 691495  
Flight time: 848.4 Hobbs: 943.7



**Brought For**

1. Performed a 100hr inspection of engine for annual of N4904 in accordance with FAR 43 appendix D and Cirrus SR22 AMM Chapter 05-20 schedule maintenance checks as a guide, and Tornado alley 50/100 hour inspection items. C/W applicable TCM SB's SB96-12, SB95-2, SID05-7, SID97-3E.
  2. Drained engine oil, removed and examined oil filter. No contamination found. Serviced with 8qts Aeroshell 15W50 oil and new CH48108 oil filter.
  3. Performed cylinder compression test #1 59/80 #2 55/80 #3 43/80 #4 48/80 #5 63/80 #6 77/80.
  4. Removed magnetos P/N's 10-500556-101, S/N's D07KA085, D07KA115, sent to Aircraft Magneto Service for 500hour inspection. See Maintenance release tags, and Aircraft Magneto Service work order #'s 4490, 4491.
  5. Complied with alternator # 1 500 hour inspection and brush replacement, P/N ALE1013AS.
  6. Complied with TCM 500hour cleaning and inspection of fuel injection nozzles.
  7. Replaced starter drive adapter with overhauled exchange unit P/N 642085A2.
  8. Replaced forward camshaft cover plate gasket P/N 653415.
  9. Replaced broken right wastegate arm spring, P/N LEM/20D03S.
  10. Replaced all rocker cover gaskets P/N 655705.
  11. Replaced right wastegate support bolt MS21250-05020, and upper bracket bushing P/N 22-6200021.
  12. Removed left and right turbochargers P/N's 466304-9003, S/N's KIL01419, IAL00260, Sent to Approved Turbo Components for overhaul. See FAA form 8130-3's in aircraft records. Reinstalled following overhaul.
- Visual inspection of overall engine installation, engine controls, mounts, fuel and oil lines was o.k. Wash down engine. Run-up/leak check o.k. Flushed all oil hoses and lines. A list of AD's may be found in aircraft records. I certify this engine has been inspected in accordance with a 100hr inspection and determined to be in airworthy condition.

**-END**

September 20, 2012  
N4904 S/N 2924  
Engine IO550N50 S/N 691495  
Flight time: 904.0

Drained engine oil, removed and examined oil filter. No contamination found.  
CH48108 oil filter. -----END-----

November 27, 2012  
N4904 S/N 2924  
Engine IO550N50 S/N 691495  
Flight time: 937.8

Drained engine oil, removed and examined oil filter. No contamination found. CH48108 oil filter. Performed cylinder compression test #1 62/80 #2 62/80 #

December 7 2012  
N4904 S/N 2924  
Engine IO550N50 S/N 691495  
Flight time: 938.7

Removed left magneto P/N 10-500556-101, S/N D07KA085, sent to Aircraft Maintenance Center for repair. See Aircraft Magneto Service maintenance release tag and work order # 10-500556-101 for check satisfactory. ---END---

Maintenance Release  
**VECTOR AIR, LLC**  
The aircraft, airframe, aircraft engine, propeller or  
appliance identified below was repaired and  
inspected in accordance with current regulations  
of the Federal Aviation Administration and is  
approved for return to service.

Pertinent details of the repairs under  
Work Order # 5174 are herein attached  
DECEMBER 2012

Work Order # 5174  
Dated 5 DECEMBER 2012

Inspected by Chf. [Signature]  
Cert. # A/P 1862854

Cert. # A/P 184382  
**SERVICEABLE** (A)

Service: BENDIX (TCM)  
Name: MAFETO S68SC-251

Name                       
Unit MAGNETO 56  
Part # 10-500556-10 Ser. #                       
IP #                     

Part # 0-500328-12 ID # \_\_\_\_\_  
Aircraft \_\_\_\_\_  
Disposition RETURN TO SERVICE  
TEST

Disposition RETURN TO SE  
Reason For Removal REPAIR / TEST  
1 SWAFER Date UNK

Reason For Removal See REVERSE SIDE Date 10/1/82  
Removed By T. SHAFFER  
AD or Service See REVERSE SIDE  
FOR LISTING

AD or Service ~~See~~ **TOP LISTING**  
 Bulletins ~~of~~ **REPLACED DISTRIBUTOR**  
 Work ~~with~~ **new**

Work **REPLACED**  
Performed **ECAP** with new  
FAA Certificate No. **10-357586**  
**10-357586** Form #

FAA Certificate No. 10-338-  
TESTED JAW TOM Form #  
MAGNETO SERVICE

**AIRCRAFT MAGNETO SERVICE**  
11697 KIRK AVE. NE  
08110

11697 KIRK AVE. NE  
BAINBRIDGE ISLAND, WA 98110  
(206) 768-3099

X42002-2







Date	Total Time		Time Since Last Overhaul		<b>Engine Service and Maintenance Record</b> Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
	Hrs.	Min.	Hrs.	Min.	

Brought Forw: (Airframe)



Customer: Scott Cook Aircraft Mfg: Cirrus Reg. No. N4904  
 Model: SR22 S/N: 2924 AFTT: 1206.1 Cycles: NA Date: April 29, 2014  
 Complied with the following maintenance items  
 Removed the left magneto and installed PN: 10-382584 contact, PN: 10-349276 condenser, PN: 10-400613 gasket. Installed  
 magneto and timed to engine.  
 Performed satisfactory operational check

-END-

All maintenance performed on this aircraft was performed in accordance with current regulations of the Federal Aviation Administration and is approved for return to service with respect to the work performed. For details see W.O. No. 8725

Signat: Don Carter Dan Carter  
 A&P 549534467

Signature Technicair ■ FAA / CRS - 55GR851B

September 1, 2014  
 N4904 S/N 2924  
 Engine IO550N50 S/N 691495  
 Flight time: 1145.7 Hobbs: 1241.2



Erie Municipal Airport  
 395 Airport Drive  
 Erie, Colorado 80516

1. Performed a 100hr inspection of engine for annual of N4904 in accordance with FAR 43 appendix D and Cirrus SR22 AMM Chapter 05-20 schedule maintenance checks as a guide, and Tornado alley 50/100 hour inspection items as a guide.
  2. Drained engine oil, removed and examined oil filter. No contamination found. Serviced with 8qts Phillips XC20W50 oil and new CH48108 oil filter.
  3. Performed cylinder compression test #1 78/80 #2 72/80 #3 74/80 #4 62/80 #5 76/80 #6 72/80.
  4. Complied with inspections in reference to Tornado Alley, **SI08-04** heat exchanger inspection, **SB08-01** breather discharge tube cleaning, **SB08-02** PRV duct inspection, **SB09-01** Half stamp exhaust manifold inspection, **SB12-02** engine driven fuel pump inspection, **SI11-01**, inspection of exhaust system slip joints, **SB11-04** turbo inlet screen, **SB11-03** Support rod alignment, **SB10-01** alternate air door hinge inspection.
- Visual inspection of overall engine installation, engine controls, mounts, fuel and oil lines was o.k. Wash down engine. Run-up/leak check o.k. Flushed all oil hoses and lines. A list of AD's may be found in aircraft records. I certify this engine has been inspected in accordance with a 100hr inspection and determined to be in airworthy condition.

END

Terrill Shafer  
 IA2860279



MichelsAviation  
 1280 Airport Blvd  
 Mesquite, TX 75181-1337  
 (972) 222-8128

N4904 January 15, 2015 HOBBS: 1302.6  
 FLIGHT TIME: 1207.2

WORK ORDER #15-009  
 ENGINE PAGE ONE OF ONE

Drained oil. Replaced Oil filter P/N CH48108-1. Cut and inspected old filter. Serviced with 8 quarts of Phillips X/C 20W-50 oil. Ground ran Engine & no leaks noted. All work accomplished in accordance with Cirrus maintenance manual P/N 13773-001 Chapter 12-10 Page 7,8 & 9 Section B Items 1,2,3 & 4.

ENGINE is approved for return to service. Approval for return to service is only for work documented herein.

Mark A. Smith A&P 3563543



March 19, 2015  
N4904 S/N 2924  
Engine IO550N50 S/N 691495  
Flight time: 1263.0



Erie Municipal Airport  
395 Airport Drive  
Erie, Colorado 80516

Date

1. Drained engine oil, removed and examined oil filter. No contamination found. Serviced with 8qts Phillips XC20W50 oil and new CH48108-1 oil filter. Performed run up leak check.
2. Replaced right wastegate linkage spring P/N LEM120D03S, arm pins MS20392-1C15, MS20392-2C13 and safety pin AN416-1. -----END-----

Brought For

*Jonathan Carlisle*  
Jonathan Carlisle  
AP30639261A

*Hobbs*  
**DATE 11-18-15 N4904, TCM IO-550-N, S/N 691495, TACH 1385.2. SMOH 0.0**

Removed engine from aircraft for overhaul. Cylinders were overhauled by Performance Aircraft Powerplants, Inc all records on file at Performance Aircraft Powerplants under W/O # 3404. All steel parts were inspected by Rick Romans, Inc. and SB M76-4 and MSB96-10B were complied with, all records on file at Rick Romans, Inc under W/O # 49873. Crankcase Services, Inc. inspected and repaired crankcase per CSI-2001 process CSI-24422, C/N 655434/655435, S/N R07JA225. Complete turbo system was overhauled, Pressure relief valve, controller, both wastegates and both turbos records are on file at Main Turbo Systems, Inc under W/O # 39955. Fuel Pump was overhauled by Tornado Alley Turbo and TAT SB 12-02 was complied with all records on file at Tornado Alley Turbo, Inc under W/O # 15-518. Great Planes Fuel Metering overhauled fuel system components and all records are on file at Great Planes Fuel Metering, Inc. under W/O # 15-517. Reassembled engine per TCM overhaul manual and utilizing the following parts 1ea. SA646592-A1M10, 1ea. EQ7191, 1ea. 641250, 24ea. AEC501868, 1ea. SA630899, 6ea. SA536379, 4ea. SA649205, 2ea. SA641909, 12ea. SA642398-M10, 12ea. 655958, 12ea. 654490, 4ea. SA631088-.44, 36ea. SA531001, 12ea. SA652541, 4ea. SA638172, 1ea. 629680M010, 4ea. 535847, 1ea. 653359, 1ea. 630691, 1ea. 634150, 24ea. 653188, 30ea. MS20500-428, 24ea. 501868, 60ea. 649353-.62, 8ea. SA641931-10.75, 1ea. 652887-5.31, 1ea. 630943-6.19, 4 ea. 654587-.44, 2 ea. 539023, 2ea. BL-500556-101, 1ea. 10-423674-25Y, 12ea. URHB32E, 6ea. SA628488, 6ea. 646277, 1ea. 646385, 1ea. CH38-20L, 1ea. CH38-20R. MSB13-6A was complied with during reassemble of engine by installing large crankshaft gear P/N 656991 REVISION C. Compression #1.79 #2.79 #3.79 #4.79 #5.79 #6.79. 8qts of Phillips XC 20W-50 and filter AA48108-2 were installed. I Certify that this engine has been inspected IAW an annual inspection and was found to be in an airworthy condition and is approved for return to service for the work performed. Lawson Aero, LLC Afton, WY  
Mechanic *James W. Lawson, Jr.* A&P/IA 3034108

March 10, 2016  
N4904 S/N 2924  
Engine IO550N50 S/N 691495  
Flight time: 1320.0



Erie Municipal Airport  
395 Airport Drive  
Erie, Colorado 80516

1. Drained engine oil, removed and examined oil filter. No contamination found. Serviced with 8qts Phillips XC20W50 oil and new CH48108-1 oil filter. Performed run up leak check. -----END-----

*Jonathan Carlisle*  
Jonathan Carlisle  
AP30639261A



Date

Total Time

Time Since  
Last Overhaul

Hrs.

Min.

Hrs.

Min.

**Engine Service and Maintenance Record**Installations, Inspections, Airworthiness Directives, Special Inspections,  
Modifications and Service Bulletins**ARAPAHOE AERO**

12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386

N4904 Continental IO-550-N(50) S/N: 691495 Total Time: 1325.6

24 May 2016 Flight Hobbs: 1325.6 Hobbs Meter: 1420.9

Performed compression test: #1) 79/80, #2) 78/80, #3) 79/80, #4) 78/80, #5) 79/80, #6) 79/80. Removed and inspected oil filter. No ferrous contaminants noted. Blackstone oil sample taken and submitted. Installed new oil filter. Performed inspection of exhaust system. Small hole found in right exhaust manifold at the upper aft corner of the transition. No corrective action taken at this time at request of owner. A list of airworthy items provided to owner in letter form. Ground run/leak check satisfactory.

*Shuell*

L. John Wells A&amp;P3221132

w/o 36727

June 16, 2016

N4904 S/N 2924

Engine IO550N50 S/N 691495

Flight time: 1326.5

**VectorAir**  
Aircraft Inspection & RepairErie Municipal Airport  
395 Airport Drive  
Erie, Colorado 80516

1. Replaced both tail pipe V-band clamps with new P/N 11-1100023.
2. Installed replacement missing turbocharger lateral support spacers, P/N's ETI-G2-600-129.
3. Installed new exhaust right manifold P/N 22-3850003. —END—

  
Terrill Shafer  
AP2860279IA

August 4 2016

N4904 S/N 2924

Engine IO550N50 S/N 691495

Flight time: 1350.9

**VectorAir**  
Aircraft Inspection & RepairErie Municipal Airport  
395 Airport Drive  
Erie, Colorado 80516

1. Drained engine oil, removed and examined oil filter. No contamination found. Serviced with 8qts Phillips XC20W50 oil and new CH48108-1 oil filter. Performed run up leak check. —END—

  
Jonathan Carlisle  
AP3063926IA

December 22, 2016

N4904 S/N 2924

Engine IO550N50 S/N 691495

Flight time: 1402.6 Eng TSMOH: 112.8

**VectorAir**  
Aircraft Inspection & RepairErie Municipal Airport  
395 Airport Drive  
Erie, Colorado 80516

1. Performed a 100hr inspection of engine for annual of N4904 in accordance with FAR 43 appendix D and Cirrus SR22 AMM Chapter 05-20 schedule maintenance checks as a guide, and Tornado alley 50/100 hour inspection items as a guide. C/W applicable TCM SB's.
  2. Drained engine oil, removed and examined oil filter. No contamination found. Serviced with 8qts Phillips XC20W50 oil and new CH48108 oil filter.
  3. Performed cylinder compression test #1 76/80 #2 78/80 #3 79/80 #4 78/80 #5 75/80 #6 79/80.
  4. Complied with inspections in reference to Tornado Alley, **SI08-04** heat exchanger inspection, **SB08-01** breather discharge tube cleaning, **SB08-02** PRV duct inspection and installed new chaff pad, **SB09-01** Half stamp exhaust manifold inspection, **SB12-02** engine driven fuel pump inspection, **SI11-01**, inspection of exhaust system slip joints, **SB11-04** turbo inlet screen, **SB11-03** Support rod alignment, **SB10-01** alternate air door hinge inspection.
  5. Retimed magnetos to engine 21.2 degrees.
  6. Re-torqued loose intake hose clamp on cylinder #2.
- Visual inspection of overall engine installation, engine controls, mounts, fuel and oil lines was o.k. Wash down engine. Run-up/leak check o.k. A list of AD's may be found in aircraft records. I certify this engine has been inspected in accordance with a 100hr inspection and determined to be in airworthy condition. —END—

  
Joel Burkholder  
AP3277608IA



April 20, 2017  
N4904 S/N 2924  
Engine IO550N50 S/N 691495  
Flight time: 1455.1 Eng TSMOH: 165.3



Erie Municipal Airport  
395 Airport Drive  
Erie, Colorado 80516

Brought

Drained engine oil, removed and examined oil filter. No contamination found. Serviced with 8qts Phillips XC20W50 oil and new CH48108 oil filter. —END—

Jonathan Carlisle  
AP30639261A

ENGINE MODEL:  
IO-550N50  
ENGINE S/N: 691495  
REG. NO: N4904  
WORK ORDER:  
1599-06-2017



### Crosswind Aviation (dba CAMS)

7548 Fuller St  
Casper, WY 82604  
Phone: 307-472-4359

DATE: 7/14/2017  
A/C TSN: 1488.6  
ENG TT: 1488.6  
TSMOH: 198.8  
FLIGHTTIME: 1488.6

### Engine Entries

PERFORMED ENGINE COMPRESSION CHECK, #1) 76/80; #2) 74/80; #3) 74/80; #4) 74/80; #5) 76/80; #6) 75/80. Master Office Reading: 44  
Drained oil, removed oil filter, cut open and inspected oil filter for contamination. No contamination noted at this time. Installed new oil filter and serviced engine with 8 qts of Phillips 20W50 engine oil. Performed engine run and completed engine leak check. No defects noted at this time.  
Took Oil Sample

Technicians Who Worked On The Items Listed Above:  
GALEN E. PHILLIPS-BOYLE

I CERTIFY THIS AIRCRAFT, ENGINE, PROP, HAS BEEN INSPECTED, ALL OPERATIONAL AND LEAK CHECKS HAVE BEEN COMPLETED, AND THE ABOVE LISTED WORK HAS BEEN DETERMINED TO BE IN AN AIRWORTHY CONDITION AND NO FURTHER ACTION IS REQUIRED AT THIS TIME.

DATE: 7/14/2017

SIGNED:

Pat Harrington, A&P: 2634950 IA

Work Order: 1599-06-2017

Printed by EBis 3 (datcomedia.com)

ENGINE MODEL: IO-550-N  
ENGINE S/N: 691495  
REG. NO: N4904  
WORK ORDER: 17-1319



### American Aircraft Maintenance, Inc.

Repair Station No. Z5SR421Y  
19711-B Campus Drive  
Santa Ana, CA 92707  
Phone: (949) 852-8420

DATE: 9/5/2017  
A/C TSN:  
ENG TT:  
FLIGHTTIME: 1527.6

### Engine Entries

Drained engine oil. Removed filter and cut open for inspection. No defects found. Serviced engine with Phillips X/C 20W50 oil. Installed new AA48108-2 filter, torqued and safetied. Washed engine. Ran engine to check for leaks. No leaks observed.... Oil sample taken and sent for analysis.

ENGINE MODEL: IO-550-N  
ENGINE S/N: 691495  
REG. NO: N4904  
WORK ORDER: 17-1406



### American Aircraft Maintenance, Inc.

Repair Station No. Z5SR421Y  
19711-B Campus Drive  
Santa Ana, CA 92707  
Phone: (949) 852-8420

DATE: 10/17/2017  
A/C TSN:  
ENG TT:  
FLIGHTTIME: 1562.3

CURRENT  
THE WORK

Work Order: 17-1319  
datcomedia.com)

### Engine Entries

Drained engine oil. Removed filter and cut open for inspection. No defects found. Serviced engine with Phillips X/C 20W50 oil. Installed new AA48108-2 filter, torqued and safetied. Washed engine. Ran engine to check for leaks. No leaks observed.... Oil sample taken and sent for analysis.

THIS AIRCRAFT OR COMPONENT HAS BEEN REPAIRED AND/OR INSPECTED AS OUTLINED ABOVE IN ACCORDANCE WITH CURRENT MAINTENANCE RULES OF 14 CFR, IT IS FOUND AIRWORTHY AND IS APPROVED RETURN TO SERVICE WITH RESPECT TO THE WORK PERFORMED.

DATE: 10/17/2017

SIGNED:

Michael Rogers  
Certified Repair Station No. Z5SR421Y

Work Order: 17-1406

Printed by EBis 3 (datcomedia.com)

No. Date

26 10/3/17

### Maintenance Performed:

Removed # 5 cylinder CHT probe and installed new CHT probe PN 16578-001. Operational test indicated proper operation. Work done IAW Cirrus SR-22 Maintenance Manual, 77-20.

I certify the aircraft/engine(s) referenced in the above stated work order was performed in accordance with the current regulations of the Federal Aviation Administration and, with respect to the work performed, the aircraft identified above is presently airworthy and returned to service.

Signature: Andrew Schrage

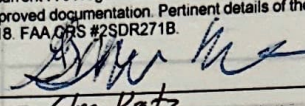
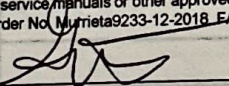
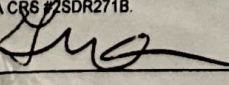
AMP 2734221

Date: 10/3/2017



13



Date	Total Time		Time Since Last Overhaul		Engine Service and Maintenance Record Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
	Hrs.	Min.	Hrs.	Min.	
Brought Forward →					
<div style="display: flex; justify-content: space-between;"> <div> <p>ENGINE MODEL: IO-550-N ENGINE S/N: 691495 REG. NO: N4904 WORK ORDER: Murrieta8967-07-2018</p> </div> <div> <p><b>Gryphon Aircraft Services, LLC.</b> Repair Station No. CRS 2SDR271B 37680 Sky Canyon Drive #602 Murrieta, CA 92563 Phone: 951-698-4260</p> </div> <div> <p>DATE: 8/8/2018 A/C TSN: 1675.3 ENG TT: 1675.3 TSMOH: 290.1 TACH: 1675.3</p> </div> </div>					
<p><b>Engine Entries</b></p> <p>Replaced #5 CHT probe... Cleaned and inspected for oil leak, no leaks at this time.</p> <p>I Certify that with respect to only the work performed on the above identified Aircraft, Engine, Propeller or Appliance was repaired and inspected in accordance with current FAA regulations and is APPROVED for return to service All work performed IAW applicable service manuals or other approved documentation. Pertinent details of the repair are on file at this repair facility under Work Order No. Murrieta8967-07-2018. FAA CRS #2SDR271B.</p> <div style="display: flex; justify-content: space-between;"> <div>DATE: 8/8/2018</div> <div> <p>SIGNED: </p> <p>Glen Kratz Certified Repair Station No. CRS 2SDR271B</p> </div> <div> <p>Work Order: Murrieta8967-07-2018 Printed by EBis 3 (datcomedia.com)</p> </div> </div>					
<div style="display: flex; justify-content: space-between;"> <div> <p>ENGINE MODEL: IO-550-N ENGINE S/N: 691495 REG. NO: N4904 WORK ORDER: Murrieta9233-12-2018</p> </div> <div> <p><b>Gryphon Aircraft Services, LLC.</b> Repair Station No. CRS 2SDR271B 37680 Sky Canyon Drive #602 Murrieta, CA 92563 Phone: 951-698-4260</p> </div> <div> <p>DATE: 2/7/2019 A/C TSN: 1727.7 ENG TT: 1727.7 TSMOH: 342.5 TACH: 1727.7</p> </div> </div>					
<p><b>Engine Entries</b></p> <p>(Completed 100 HOUR INSPECTION per Gryphon Aircraft Services Inspection form. Changed oil and filter AA48108-1. Serviced engine with 7 qts Phillips 20w-50 oil. Compression check #1 74 #2 78 #3 78 #4 76 #5 40 #6 78. Cleaned, gapped and tested all spark plugs See AD note update sheet and master list for complete AD note history thru this date and current revision... Removed #5 cylinder due to low compression and installed Exchange cylinder from Corona Aircraft Engines W.O. J021CE. Removed #6 cylinder to maintain balanced engine and installed exchange cylinder from Corona Aircraft Engines W.O. J021CE. All work performed IAW Continental Manuals... Complied with Tornado Ally ICA 22-64600004... Replaced magneto air pressure filter... Replaced all fluid carrying hoses IAW TATI Instructions, due for replacement at 2/1/29... Performed 12 month Air Filter Service... Complied with 300 hour Fuel Injector Service IAW Continental Instructions... Replaced Alternator #1 Brush holder assy, Repaired chafed Field wire at harness Adel clamp, replaced failed Alternator Field Control Module. Repaired Alt#1 voltage sense wire in MCU. Operationally checked o.k.</p> <p>I Certify that this ENGINE has been inspected IAW an 100 hour inspection and was determined to be in AIRWORTHY Condition. All work performed IAW applicable service manuals or other approved documentation. Pertinent details of the repair are on file at this repair facility under Work Order No. Murrieta9233-12-2018. FAA CRS #2SDR271B.</p> <div style="display: flex; justify-content: space-between;"> <div>DATE: 2/7/2019</div> <div> <p>SIGNED: </p> <p>Glen Kratz Certified Repair Station No. CRS 2SDR271B</p> </div> <div> <p>Work Order: Murrieta9233-12-2018 Printed by EBis 3 (datcomedia.com)</p> </div> </div>					
<div style="display: flex; justify-content: space-between;"> <div> <p>ENGINE MODEL: IO-550-N ENGINE S/N: 691495 REG. NO: N4904 WORK ORDER: Murrieta9488-04-2019</p> </div> <div> <p><b>Gryphon Aircraft Services, LLC.</b> Repair Station No. CRS 2SDR271B 37680 Sky Canyon Drive #602 Murrieta, CA 92563 Phone: 951-698-4260</p> </div> <div> <p>DATE: 5/6/2019 A/C TSN: 1747.1 ENG TT: 1747.1 TSMOH: 381.9 TACH: 1747.1</p> </div> </div>					
<p><b>Engine Entries</b></p> <p>Inspected engine connections &amp; applied stabilant 22, no issues noted on run up... Drained oil and serviced engine with 7qts of Philips X/C 20w-50...no oil analysis...inspected oil filter and found no debris, no leaks noted after ground run... Replaced engine fuel drain IAW Cirrus Chapter 71.... Adjusted manifold pressure IAW TATI STC.</p> <p>I Certify that with respect to only the work performed on the above identified Aircraft, Engine, Propeller or Appliance was repaired and inspected in accordance with current FAA regulations and is APPROVED for return to service All work performed IAW applicable service manuals or other approved documentation. Pertinent details of the repair are on file at this repair facility under Work Order No. Murrieta9488-04-2019. FAA CRS #2SDR271B.</p> <div style="display: flex; justify-content: space-between;"> <div>DATE: 5/6/2019</div> <div> <p>SIGNED: </p> <p>Glen Kratz Certified Repair Station No. CRS 2SDR271B</p> </div> <div> <p>Work Order: Murrieta9488-04-2019 Printed by EBis 3 (datcomedia.com)</p> </div> </div>					



Date	Total Time		Time Since Last Overhaul		Engine Service and Maintenance Record Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
	Hrs.	Min.	Hrs.	Min.	
Brought Forward →					

ENGINE MODEL:  
IO-550-N  
ENGINE S/N: 691495  
REG. NO: N4904  
WORK ORDER:  
Murrieta9617-07-2019

### Gryphon Aircraft Services, LLC.

Repair Station No. CRS 2SDR271B  
37680 Sky Canyon Drive  
#602  
Murrieta, CA 92563  
Phone: 951-698-4260

DATE: 7/16/2019  
A/C TSN: 1798.4  
ENG TT: 1798.4  
TSMOH: 413.2  
TACH: 1798.4

### Engine Entries

Changed oil and filter with AA48108-2 serviced with Phillips 20w-50xc 7qts., inspect filter element o.k., take oil sample, run for leaks o.k.... Inspected engine compartment for general condition and defects, checked brake fluid reservoir... Cleaned/inspected for leaks on post run up, No leaks at this time.

I Certify that with respect to only the work performed on the above identified Aircraft, Engine, Propeller or Appliance was repaired and inspected in accordance with current FAA regulations and is APPROVED for return to service. All work performed IAW applicable service manuals or other approved documentation. Pertinent details of the repair are on file at this repair facility under Work Order No. Murrieta9617-07-2019. FAA CRS #2SDR271B.

DATE: 7/16/2019

SIGNED:

Johnny Wildman  
Certified Repair Station No. CRS 2SDR271B

Work Order: Murrieta9617-07-2019

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MAKE: Citrus  
MODEL: SR22 TN  
S/N: 2924  
REG. NO: N4904  
WORK ORDER:  
Murrieta9652-07-2019

### Gryphon Aircraft Services, LLC.

Repair Station No. CRS 2SDR271B  
37680 Sky Canyon Drive  
#602  
Murrieta, CA 92563  
Phone: 951-698-4260

DATE: 7/31/2019  
A/C TSN: 1798.4  
TACH: 1798.4

### Airframe Entries

Drained oil and serviced engine with 7qts of Philips X/C 20w-50. Installed AA48108-2 oil filter, inspected old filter and found no debris... Serviced Oxygen bottle to 1900 p.s.i.

I Certify that with respect to only the work performed on the above identified Aircraft, Engine, Propeller or Appliance was repaired and inspected in accordance with current FAA regulations and is APPROVED for return to service. All work performed IAW applicable service manuals or other approved documentation. Pertinent details of the repair are on file at this repair facility under Work Order No. Murrieta9652-07-2019. FAA CRS #2SDR271B.

DATE: 7/31/2019

SIGNED:

Glen Kratz  
Certified Repair Station No. CRS 2SDR271B

Work Order: Murrieta9652-07-2019

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ENGINE MODEL:  
IO-550-N  
ENGINE S/N: 691495  
REG. NO: N4904  
WORK ORDER:  
Murrieta9713-09-2019

### Gryphon Aircraft Services, LLC.

Repair Station No. CRS 2SDR271B  
37680 Sky Canyon Drive  
#602  
Murrieta, CA 92563  
Phone: 951-698-4260

DATE: 9/9/2019  
A/C TSN: 1845.2  
ENG TT: 1845.2  
TSMOH: 460  
TACH: 1845.2

### Engine Entries

Perform 500 hour inspection on LH and RH magnetos, install new distributor blocks and gear kits on LH and RH mags, set E gap, install mags and time to engine, Verified unmetered fuel flow, adjusted full power fuel flow IAW Tornado Alley Turbo ICA 22-6460004 Rev. C.

I Certify that with respect to only the work performed on the above identified Aircraft, Engine, Propeller or Appliance was repaired and inspected in accordance with current FAA regulations and is APPROVED for return to service. All work performed IAW applicable service manuals or other approved documentation. Pertinent details of the repair are on file at this repair facility under Work Order No. Murrieta9713-09-2019. FAA CRS #2SDR271B.

DATE: 9/9/2019

SIGNED:

Glen Kratz  
Certified Repair Station No. CRS 2SDR271B

Work Order: Murrieta9713-09-2019

Printed by EBis 3 (datcomedia.com)



Date	Total Time		Time Since Last Overhaul		Engine Service and Maintenance Record Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
	Hrs.	Min.	Hrs.	Min.	
Brought Forward →					

ENGINE MODEL:  
IO-550-N  
ENGINE S/N: 691495  
REG. NO. N4904  
WORK ORDER:  
Murrieta9788-10-2019

### Gryphon Aircraft Services, LLC.

Repair Station No. CRS 2SDR271B  
37680 Sky Canyon Drive  
#602  
Murrieta, CA 92563  
Phone: 951-698-4260

DATE: 10/11/2019  
A/C TSN: 1878.4  
ENG TT: 1845.2  
TSMOH: 460  
HOBBS: 1878.4

### Engine Entries

Changed oil and filter, Service Phillips 20w-50 oil, Inspect filter element o.k., take oil sample, results pending... run for leaks o.k.... Inspected engine compartment for general condition and defects, checked brake fluid reservoir.... Retorqued L/H and R/H turbo V-Band clamp... Adjustment made at L/H turbo tube rubber sleeve fitting to give clearance for turbo support rod... Tightend multiple fitting around oil cooler area, cleaned area. Future observation required.... Moved Gang drain back of engine away from control cable.

I Certify that with respect to only the work performed on the above identified Aircraft, Engine, Propeller or Appliance was repaired and inspected in accordance with current FAA regulations and is APPROVED for return to service All work performed IAW applicable service manuals or other approved documentation. Pertinent details of the repair are on file at this repair facility under Work Order No. Murrieta9788-10-2019. FAA CRS #2SDR271B.

DATE: 10/11/2019

SIGNED:

Work Order: Murrieta9788-10-2019

Printed by EBis 3 (datcomedia.com)

Glen Kratz  
Certified Repair Station No. CRS 2SDR271B

ENGINE MODEL: IO-550-N  
ENGINE S/N: 691495  
REG. NO. N4904  
WORK ORDER: 17-2397



### American Aircraft Maintenance, Inc.

Repair Station No. Z5SR421Y  
19711-B Campus Drive  
Santa Ana, CA 92707  
Phone: (949) 852-8420

DATE: 12/2/2019  
A/C TSN: 1905.7  
ENG TT: 1905.7  
FLIGHTTIME: 1905.7

### Engine Entries

Removed Left Magneto Model S6RSC-25P S/N D15JA049R. Removed Right Magneto model S6RC-25P S/N D151A136R for outside repair at Aero Accessories van Nuys. New points installed in left magneto. Installed both magnetos IAW Continental Engines overhaul manual timed IAW Tornado Alley ICA requirements with new base gaskets. Post operational and leak check is now good.

DATE: 12/2/2019

SIGNED:

Work Order: 17-2397

Printed by EBis 3 (datcomedia.com)

William Anderson  
Certified Repair Station No. Z5SR421Y

ENGINE MODEL:  
IO-550-N  
ENGINE S/N: 691495  
REG. NO. N4904  
WORK ORDER:  
Murrieta10016-02-2020

### Gryphon Aircraft Services, LLC.

37680 Sky Canyon Drive  
#602  
Murrieta, CA 92563  
Phone: 951-698-4260

DATE: 4/13/2020  
A/C TSN: 2024  
ENG TT: 1990.8  
TSMOH: 805.6  
HOBBS: 0

### Engine Entries

Completed 100 HOUR INSPECTION per Gryphon Aircraft Services Inspection form. Changed oil and filter AA48108-2. Serviced engine with 7qts. a/s Phillips 20W50XC Mineral. See AD note update sheet and master list for complete AD note history thru this date and current revision... Replaced LH & RH turbo exhaust V band clamps with new, due again for replacement at flight hobs of 450.0... CW 12 month K&N filter service due... Installed new A/C turnbuckle and adjusted tension to spec IAW Cirrus AMM... Removed all cylinders for overhaul by Pacific Continental Engines, WO 1681. (see 8130's) Reinstalled cylinders IAW Continental Manual M-0. Installed cylinders using new hardware, gaskets and safety locks as needed. Cylinders are not affected by SB-1808B... Removed LH & RH exhaust dump tubes, Clean and reinstall using anti seize... Replaced Left aft exhaust heat shield breeze clamp... Removed alternator #2 cleaned and inspected. Cleaned and prepped surface. Replaced garlock/oil seal with new. Reinstalled Alternator, Torqued attaching hardware to spec... Replaced slave waste gate clevis pins with new... CW TAT Service Bulletin 11-04 Turbo oil inlet check valve inspection and cleaning.

I Certify that this ENGINE has been inspected IAW an 100 hour inspection and was determined to be in AIRWORTHY Condition All work performed IAW applicable service manuals or other approved documentation. Pertinent details of the repair are on file at this repair facility under Work Order No. Murrieta10016-02-2020. FAA CRS #2SDR271B.

DATE: 4/13/2020

SIGNED:

Work Order: Murrieta10016-02-2020

Printed by EBis 3 (datcomedia.com)



Date

ENGINE MODEL:  
IO-550-N  
ENGINE S/N: 691495  
REG. NO: N4904  
WORK ORDER:  
Murrieta10206-06-2020



### Gryphon Aircraft Services, LLC.

37680 Sky Canyon Drive  
#602  
Murrieta, CA 92563  
Phone: 951-698-4260

DATE: 7/6/2020  
A/C TSN: 2049.2  
ENG TT: 2016  
TSMOH: 630.8  
HOBBS: 25.2

Record  
Special Inspections,

#### Engine Entries

Installed engine driven fuel pump after repairs were completed by Great planes fuel metering Inc. 8130 tracking # GPFW 20-340 CRS # GPR022B dated 09/29/2020, Torqued attaching hardware to spec, Performed A run up leak check with no leaks noted.

I Certify that with respect to only the work performed on the above identified Aircraft, Engine, Propeller or Appliance was repaired and inspected in accordance with current FAA regulations and is APPROVED for return to service All work performed IAW applicable service manuals or other approved documentation. Pertinent details of the repair are on file at this repair facility under Work Order No. Murrieta10206-06-2020. FAA CRS #2SDR271B.

DATE: 7/6/2020

SIGNED:

Work Order: Murrieta10206-06-2020

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ENGINE MODEL:  
IO-550-N  
ENGINE S/N: 691495  
REG. NO: N4904  
WORK ORDER:  
Murrieta10142-05-2020



### Gryphon Aircraft Services, LLC.

37680 Sky Canyon Drive  
#602  
Murrieta, CA 92563  
Phone: 951-698-4260

DATE: 7/6/2020  
A/C TSN: 2049.2  
ENG TT: 2016  
TSMOH: 630.8  
HOBBS: 25.2

#### Engine Entries

Changed oil and filter, Inspect filter element o.k., Serviced with 7 quarts Phillips 20W50XC and installed new AA48108-2 filter. take Black stone oil sample, run for leaks o.k.... Inspected engine compartment for general condition and defects, checked brake fluid reservoir ok at this time.... Removed EGT #1 and #3 cleaned connection and installed new EGT #1 and #3 probe.... Adjusted throttle and prop governor cables so aircraft indicated closer to POH spec of 100% and 2700 RPM.

I Certify that with respect to only the work performed on the above identified Aircraft, Engine, Propeller or Appliance was repaired and inspected in accordance with current FAA regulations and is APPROVED for return to service All work performed IAW applicable service manuals or other approved documentation. Pertinent details of the repair are on file at this repair facility under Work Order No. Murrieta10142-05-2020. FAA CRS #2SDR271B.

DATE: 7/6/2020

SIGNED:

Work Order: Murrieta10142-05-2020

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ENGINE MODEL:  
IO-550-N  
ENGINE S/N: 691495  
REG. NO: N4904  
WORK ORDER:  
Murrieta10528-12-2020



### Gryphon Aircraft Services, LLC.

37680 Sky Canyon Drive  
#602  
Murrieta, CA 92563  
Phone: 951-698-4260

DATE: 1/15/2021  
A/C TSN: 2098.9  
ENG TT: 2065.7  
TSMOH: 680.5  
HOBBS: 74.9

#### Engine Entries

Changed oil and filter, Inspect filter element o.k., took Black stone oil sample, Serviced with AA48108-2 oil filter & 7qts. Phillips 20w-50xc, run for leaks o.k.... Inspected engine compartment for general condition and defects, checked brake fluid reservoir... Cleaned CHT #5 with Stabilant 22.

I Certify that with respect to only the work performed on the above identified Aircraft, Engine, Propeller or Appliance was repaired and inspected in accordance with current FAA regulations and is APPROVED for return to service All work performed IAW applicable service manuals or other approved documentation. Pertinent details of the repair are on file at this repair facility under Work Order No. Murrieta10528-12-2020. FAA CRS #2SDR271B.

DATE: 1/15/2021

SIGNED:

Work Order: Murrieta10528-12-2020

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ENGINE MODEL:  
IO-550-N  
ENGINE S/N: 691495  
REG. NO: N4904  
WORK ORDER:  
Murrieta10796-04-2021



### Gryphon Aircraft Services, LLC.

37680 Sky Canyon Drive  
#602  
Murrieta, CA 92563  
Phone: 951-698-4260

DATE: 5/14/2021  
A/C TSN: 2127.5  
ENG TT: 2094.3  
TSMOH: 709.1  
HOBBS: 103.5

#### Engine Entries

Completed 100 HOUR INSPECTION per Gryphon Aircraft Services Inspection form. Changed oil and filter AA48108-2 Serviced engine with 7 qts Phillips 20W50XC. Compression check #1 75 #2 70 #3 70 #4 71 #5 47 #6 70. Cleaned, gapped and tested all spark plugs See AD note update sheet and master list for complete AD note history thru this date and current revision.... Removed, cleaned, and reinstalled all 6 fuel injectors with new o-rings and washers IAW Continental MM.... Trimmed heat shields for cylinders #1 and #3... Replaced #4 upper and lower spark plugs with new.... Removed LH and RH exhaust turbo down pipes, cleaned, applied copper anti-seize, and reinstalled IAW TAT.... Strop drilled crack on RH engine baffle... Installed new scat tube from intake box to alt air tube IAW Cirrus AMM.... Replaced with new fresh air intake scat tube and heat sleeve IAW Cirrus AMM.... CW Tornado Alley Instructions for Continued airworthiness IAW 22-6460001

I Certify that this ENGINE has been inspected IAW an 100 hour inspection and was determined to be in AIRWORTHY Condition All work performed IAW applicable service manuals or other approved documentation. Pertinent details of the repair are on file at this repair facility under Work Order No. Murrieta10796-04-2021. FAA CRS #2SDR271B.

DATE: 5/14/2021

SIGNED:

Work Order: Murrieta10796-04-2021

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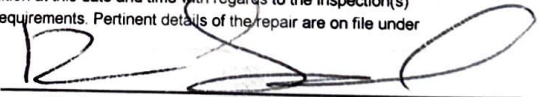
Engine N4904	<b>Maintenance</b>	TCM IO-550-N	07 Feb 22
		Serial No: 691495	Tach: 0149.1
		TSMO: 0754.7	Hobbs: 2225.7

Maintenance Entries:

- Complied with Coast Pre-buy Inspection list and provided client with list of recommended discrepancies.
- Compressions as follows: #1: 72/80, #2: 68/80, #3: 72/80, #4: 72/80, #5: 60/80, #6: 76/80, MO: 40
- Complied with borescope inspection. Sent to client for viewing. No defects noted at this time.
- Drained engine oil. Serviced engine with 8qts Phillips Victory 20w50. Leak check Ok. Filter removed and inspected - no metal found. Replaced with Oil Filter (CH48108-1).
- EGT #6 probe removed and replaced with Sensor Interface Unit 16579-002. Ops check ok.
- Performed idle speed/mixture cut off adjustment. No further defects noted.
- L/R Magnetos re-timed to 21.5 degrees per TAT.
- LH induction tube replaced with Duct, Left fwd (ETI-G2-204-102).
- Air filter replaced with Air Filter (33-2022).
- Magneto filter replaced with Magneto Filter (04-6700015). Next due at 449.1
- All fuel injectors serviced with O-Ring Kit (ORW-6). Injector leak checked by ops - no leaks. Next due at 449.1
- Alt 1 inspected in accordance with manufacturers ICA and complied with 500Hr inspection. Work performed in accordance with CSB19-09. Ops check ok. Leak check OK.

I certify the airframe, engine, and/or component identified was repaired and inspected in accordance with the current Repair Manual and the Federal Aviation Regulations, and was determined to be in an Airworthy Condition at this date and time with regards to the inspection(s) and/or maintenance performed, and is approved for return to service as per those requirements. Pertinent details of the repair are on file under

Work Order #WO11226

  
**Ruben Sandoval CRS # COAR038E**

**SAN DIEGO, CA – COAST AVIATION SERVICES – (858) 800-3878**

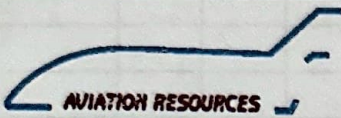
18







Date	Total Time		Time Since Last Overhaul		<b>Engine Service and Maintenance Record</b> Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins	
	Hrs.	Min.	Hrs.	Min.		
Brought Forward →						

 <b>AVIATION RESOURCES</b> 101 Airport Ave, Hangar 7 Cumberland, WI 54829	N4904		AIRFRAME LOG BOOK ENTRY				9/12/2022	
	Cirrus	SR22	S/N	2924	Flight	202.5	Hobbs	2290.9
	Continental	IO550N50	S/N	691495	Flight	202.5	Hobbs	2290.9
	Hartzell	PHC-J3Y1F-1N	S/N	NJ1892B	Flight	202.5	Hobbs	2290.9

-Accessed firewall connector above MCU. Removed TIT pins at firewall plug. Drilled hole in left exhaust for TIT probe; installed and torqued probe. Installed sockets in outside firewall connector routed wire to TIT probe and connected; secured wire. Installed selector switch on pilot instrument panel left of PFD and right of mag switch. Installed placard for TIT probe selected.

-Removed LH aileron; rigged aileron roll trim; original trim travels at 7.8° down and 4.7° up, now at 6.2° up and down. Tightened rod end to pulley segment and cotter pinned. Installed left aileron and safetied. Replaced all flap torque tube bushings P/N TFI-2022-20; shortened spacers for torque tube. Installed new rod ends on left flap actuator link P/N 11314-004; cotter pinned and safety wired.

-Replaced throttle and propeller control end bearing and attach hardware; torqued bolt and installed cotter pins. Lubed controls.

-Checked aileron trim start-up voltage; found at UP 3.4v, DOWN 2.3v.

-Accessed nose wheel to correct bearing; re-tensioned, cotter pinned, and closed nose wheel.

-Removed left magneto and ignition harness. Installed SureFly Partners Ltd. Electronic Ignition module, Model SIM6C Rev F, S/N 6C-2722005 – IAW SE04378CH and AML dated 10/31/13; STC SA04378CH. Installed new ignition harness to all lower spark plugs. Manifold Pressure reference is NOT installed. Powered through 10-amp ATI fuse wired to hot side of MCU battery lug. Fuse holder placed on inboard side of battery #1 support tray. See FAA 337 form dated 09/12/2022. POH supplement installed in POH; limitations placard installed on center console. Set magneto-to-engine timing Right (top) @ 20.5° and Left (SureFly) @ 22.5°.

-Relocated engine ground strap from mixture bracket to starter drive.

-Removed rear seats. Adjusted aileron cable tension to 35 lbs. Secured turnbuckle with clips. Reinstalled rear seats.

-Cleaned TKS panel to wing upper mating strips with alcohol. Scraped off old clear coat; applied a new layer of clear coat.

-Replaced loose rivets with screws and nuts on left lower cowling louver.

-Installed battery minder harness P/N BM-AIK2A to power and ground at MCU terminal studs, unit placed above GPU port.

-Removed MCU cover. Re-torqued #1 battery and starter terminal. Installed riv nuts in MCU for heat shield attachment. Reinstalled cover.

-Replaced throttle rod end P/N HF-3M; secured and cotter pinned.

(Refer to Job #4904.1 for details.)

THIS AIRCRAFT ENGINE/PROPELLER COMBINATION WAS INSPECTED AND/OR WAS REPAIRED IN ACCORDANCE WITH CURRENT REGULATIONS OF THE FAA, AND IS APPROVED FOR RETURN TO SERVICE.

JIM BARKER A&P/IA 2755069

Cell (715) 491-1303

Email jim@aviationvibes.com



AVIATION RESOURCES, LLC

Hangar (715) 822-5787

www.aviationvibes.com




Date	Total Time		Time Since Last Overhaul	
	Hrs.	Min.	Hrs.	Min.

# Engine Service and Maintenance Record

Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins

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 <b>AVIATION RESOURCES</b> 101 Airport Ave, Hangar 7 Cumberland, WI 54829	N4904		ENGINE LOG BOOK ENTRY				9/12/2022
	Cirrus	SR22	S/N 2924	Flight	202.5	Hobbs	2290.9
	Continental	IO550N50	S/N691495	Flight	202.5	Hobbs	2290.9
	Hartzell	PHC-J3Y1F-1N	S/N NJ1892B	Flight	202.5	Hobbs	2290.9

-Accessed firewall connector above MCU. Removed TIT pins at firewall plug. Drilled hole in left exhaust for TIT probe; installed and torqued probe. Installed sockets in outside firewall connector routed wire to TIT probe and connected; secured wire. Installed selector switch on pilot instrument panel left of PFD and right of mag switch. Installed placard for TIT probe selected.

-Removed left magneto and ignition harness. Installed SureFly Partners Ltd. Electronic Ignition module, Model SIM6C Rev F, S/N 6C-2722005 – IAW SE04378CH and AML dated 10/31/18; STC SA04378CH. Installed new ignition harness to all lower spark plugs. Manifold Pressure reference is NOT installed. Powered through 10-amp ATI fuse wired to hot side of MCU battery lug. Fuse holder placed on inboard side of battery #1 support tray. See FAA 337 form dated 09/12/2022. POH supplement installed in POH; limitations placard installed on center console. Set magneto-to-engine timing Right (top) @ 20.5° and Left (SureFly) @ 22.5°.

-Replaced slave wastegate and dump tube; rigged wastegate cable; installed new pins and springs.

-Removed cowling. Adjusted MP and RPM; reinstalled cowling.

-Cleaned oil off of the cowling. Removed inner cylinder baffling to check through-bolt torque. Dropped exhaust to torque check. Disassembled left side of engine. Torque checked all through-bolts; found satisfactory. Inspected turbos; no defects noted. Reassembled left side of engine. Re-torqued #2, #4, and #6 fuel nozzles. Freed both wastegate dump elbows. Reinstalled right exhaust, #1 and #3 cylinder intake tubes, fuel rail and TKS tube. Replaced right support rod wear sleeve and installed rod. Installed left side turbo ducting and exhaust heat shields. Installed right intercooler after repair. Washed down engine.

-Relocated engine ground strap from mixture bracket to starter drive.

-Removed old heat shield on right side; installed new heat shield P/N ETI-G2-20-21. Replaced hose clamps with new.

-Removed left baffle tray; fabricated doubler; installed.

-Removed turbo wastegate pulley bracket and cable; installed new bracket P/N 22-5600003 and cable P/N 22-5650009.

-Removed MCU cover re-torqued #1 battery and starter jam nuts. Installed riv nuts in MCU for heat shield attachment; reinstalled cover.

-Removed #3 fuel injector "E"; cleaned and installed; leak check good. Replaced induction drain seal P/N 633958-2. Adjusted high and low fuel flow, idle RPM, and idle mixture. Replaced #1-#3 inner cylinder baffle P/N 655760.

-Replaced throttle rod end P/N HF-3M; secured and cotter pinned.

(Refer to Job #4904.1 for details.)

**THIS AIRCRAFT ENGINE/PROPELLER COMBINATION WAS INSPECTED AND/OR WAS REPAIRED IN ACCORDANCE WITH CURRENT REGULATIONS OF THE FAA, AND IS APPROVED FOR RETURN TO SERVICE.**

JIM BARKER A&P/IA 2755069

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www.aviationvibes.com







# ARAPAHOE AERO

12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386  
 N4904 Continental IO-550-N(46) S/N: 691495 Total Time: 0904.4

28 July 2023 Flight Hobbs: 0265.6 Hobbs Meter: 2366.7

**100 Hour Inspection for Annual** completed this date using the Cirrus SR22 Maintenance Manual Inspection Form and the Tornado Alley Turbo, Inc, Scheduled Maintenance Check List as a guide. Compression test: #1) 77/80, #2) 78/80, #3) 74/80, #4) 77/80, #5) 78/80, #6) 78/80. Changed engine oil and filter using (Phillips X/C 20W50). Cut oil filter open and inspected, no contaminants noted. Blackstone oil sample taken and submitted. Cleaned, inspected, gapped, tested, and rotated spark plugs. Checked timing of left and right magnetos to engine. Inspected ignition harness and leads for condition and security. Leak check fuel system. Inspected and lubricated throttle, mixture and propeller governor controls. Drilled out one rivet in aft baffle seal retainer plate and replaced with screw and nut. Fabricated new aft baffle support bracket, installed at right crankcase and replaced right washer on aft through bolt. Removed, cleaned left wastegate dump tube, applied anti-seize and reinstalled. Installed left and right wastegate support bolts. Wrapped infusion tape on #2 alternator field wire to prevent chafing by air conditioning hoses. Complied with TATI SI 08-01 (Tailpipe Crankcase Breather Discharge Tube) by cleaning crankcase breather discharge tube coking deposits as outlined in Service Instruction. **Next inspection due Flight Hobbs: 315.6 or next oil change.** Complied with TATI SI 08-04 (Exhaust Heat Exchanger) by pressure test of left and right heat exchangers as outlined in Service Instruction, no defects noted. **Next inspection due Flight Hobbs: 365.6.** Complied with TATI SI 08-05 (Induction Air Filter) by inspecting and servicing induction air filter per Service Instruction. **Next air filter inspection and servicing due Flight Hobbs: 365.6.** Complied with TATI SB 09-01 (Exhaust Manifold Cracks) by inspecting exhaust manifolds for cracks around turbocharger mounting flanges, no defects noted. **Next inspection due Flight Hobbs: 315.6 or next oil change.** Complied with TATI SB 10-01 (Alternate Air Door Hinge Pin) by inspecting hinge pin ends on alternate air door for cracks, loose rivets and/or missing pin retention methods, no defects noted. **Next inspection due July 2024.** Complied with TATI SI 11-01 (Exhaust Slip Joint Inspection) by inspecting exhaust system slip joints per instruction for indications of binding, distortion or damage from excessive temperatures. Removed left exhaust dump tube. cleaned and reassembled. **Next inspection due July 2024 or V-band clamp replacement.** Complied with TATI SI 11-03 (Turbocharger Support Inspection) by inspecting turbocharger and waste gate support assembly rods, no defects noted. **Next inspection due July 2024 or V-band clamp replacement.** Complied with TATI SB 11-04 (Turbocharger Oil Supply Inlet Screen) by cleaning left and right turbocharger oil inlet screen of foreign material as per Service Bulletin. **Next inspection due July 2024.** Complied with TAT SI 12-02 (Fuel Pump O-ring Seals) by inspecting the fuel pump mixture control shaft for fuel leakage per Service Instruction, no defects noted. **Next inspection due next oil change or Flight Hobbs: 315.6.** CAT AD 2023-02-12 (SAP Cylinder Assemblies) N/A by maintenance history. No SAP cylinders of valves installed during effective dates. CAT AD 2023-04-08 (Crankshaft Counterweight Security) N/A by engine serial number and maintenance history. CAT AD 2023-09-09 (V-Band Clamps) due by Flight Hobbs: 500.0. No action required at this time. AD's checked through Biweekly 2023-15. Post inspection engine ground run-up, operational check and leak check good. **I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 HOUR INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION.**

*[Signature]*

L. John Wells A&P 3221132 w/o 44403

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tions,



AD's checked through Biweekly 2023-15. Post inspection  
**BEEN INSPECTED IN ACCORDANCE WITH A 100 HOUR INSPECTION AND WAS  
DETERMINED TO BE IN AN AIRWORTHY CONDITION.**

*L. John Wells*  
L. John Wells A&P 3221132

w/o 44403

wo: WO\_489

Engine · page 1 of 1



Steel Aviation · 53 North Street Ext · Phillipsburg, Ohio 45354 · 937 332 7587

**N4904**

HOBBS: 2388.2

**Continental, IO-550-N, S/N: 691495**  
TSO: 1003.0

TACH: 283.7

**May 01, 2024**

IO-550-N, ENGINE PN: IO-550-N, SN: 691495,

1. Drained oil and took oil sample.
2. Removed oil filter and cut open. No defects noted at this time.
3. Installed new oil filter and serviced. Installed P/N AA48108-2 - Oil Filter, Installed (8) P/N Phillips X/C 20W50 - Oil.
4. Run up and leak checked good.

With respect to the work performed, this Engine is approved for return to service. Details of work performed are on file with Steel Aviation under work order: WO\_489.

Jeff Pleiman A/P I/A 3304319

*Jeff Pleiman*