



*Two*  
**Western Shore Aviation**

**SBM**

N6187 Resource Drive • Sheboygan Falls, WI 53085  
920.467.6151 • Fax 920.467.1337

**MTW**

1815 Freedom's Way • Manitowoc, WI 54220  
920.682.0043 • Fax 920.682.0044

[www.westernshoreaviation.com](http://www.westernshoreaviation.com)

## Aircraft Engine Test Verification

This document verifies that the engine model listed below completed all testing listed below in accordance with TCI testing specifications as approved by the FAA.

Engine Model

20550 N275

Engine Serial Number

917115

Testing Completed

Standard Acceptance Test:

Date of Completion 11-20-03 Test Operator



**CONTINENTAL MOTORS**

Form No 98344

# CONTINENTAL MOTORS

# BOOK





# CONTINENTAL MOTORS

## IMPORTANT - Comply with the TopCare<sup>SM</sup> Cylinder Program requirements to be eligible for:

- *Industry leading warranty*  
- 3 Year / 1000 Hours\*
- *Improved Cylinder Service Life*

### How to Comply:

1-Have the TopCare Health Check<sup>SM</sup> performed as prescribed in the latest revision of TCM Service Information Directive SID97-2.

2-Register by submitting the TopCare Cylinder Warranty Enrollment Form & initial TopCare Health Check form to TCM in accordance with the latest revision of SID97-2.

3-Perform the TopCare Health Check on an annual basis to maintain coverage and optimum cylinder service life.

For complete TopCare Program information, go to <http://www.tcmink.com/boccarindex.html> and download a free copy of the latest revision of TCM Service Information Directive SID97-2. Go to <http://www.tcmink.com/warranty.html> to obtain a free copy of the TopCare Cylinder Warranty. You can also request this information be mailed to you by contacting the Aviator Services Desk at 1-888-826-5465.

NOTICE: Failure to register in, or failure to meet the eligibility requirements of, the TopCare program will render your cylinder warranty coverage to be the same as the Teledyne Continental Motors (TCM) Aircraft Engine Part, Component & Accessory Warranty which provides 12 Months/500 Hours (No Labor).

\*3 Year/1000 Hour Warranty Consists of 1 Year Parts & Labor Coverage, 2nd & 3rd Year Parts Only Coverage.



CONTINENTAL MOTORS

TCM NO: CYL0401



OOK



## A detailed view of a three-cylinder outboard motor, likely a Mercury model, showing the 'PLATINUM' branding on the cylinder covers. The engine is shown from a side-on perspective, highlighting the three cylinders and the associated mechanical components.



## CONTINENTAL MOTORS

DOI: 10.1002/eqe

[illegible]

- [illegible]



# 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: 11/21/2003






This engine model 10550N27, Serial No. 917115 was manufactured on 11/20/2003 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.

**TELEDYNE CONTINENTAL MOTORS**

A TELEDYNE TECHNOLOGIES COMPANY

PRODUCTION CERTIFICATE NO. 508



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.	
 <b>Western Shore Aviation</b> N6187 Resource Dr. Sheboygan Falls, WI 53085 920.467.6151					N220WJ (Cirrus SR 22 s/n 0823 ) March 16, 2004 Aircraft Hobbs: 29.7 hours
C/W Oil and Filter change, ( insp. old filter) serviced with Aeroshell 80 mineral oil.					
Mech. <u>Troy Van Sluys</u> Cert.# <u>A&amp;P 399704858</u>					
 <b>Western Shore Aviation</b> N6187 Resource Dr. Sheboygan Falls, WI 53085 920.467.6151					N220WJ Cirrus 22 s/n 0823 April 1, 2004 Aircraft Hobbs: 51.3 hrs.
C/W Oil and filter change, ( insp. Old filter ) Serviced with Aeroshell 15W50 oil.					
Mech. <u>Troy Van Sluys</u> Cert.# <u>A&amp;P 399704858 IA</u>					
 <b>Western Shore Aviation</b> N6187 Resource Dr. Sheboygan Falls, WI 53985 920-467-6151					<del>N220WJ</del> (Cirrus SR22 s/n 0823) June 30, 2004 Aircraft hobbs: 99.8
C/W Oil and filter change ( insp. old filter ) Serviced with Aeroshell 100 W.					
Mech. <u>Troy Van Sluys</u> Cert.# <u>A&amp;P 399704858 IA</u>					
 <b>Western Shore Aviation</b> N6187 Resource Dr. Sheboygan Falls, WI 53085 920.467.6151					N220WJ (Cirrus SR22 s/n 0823 ) Sept. 17, 2004 Hobbs: 145.1
C/W Oil and filter change, ( insp. old filter) serviced with Aeroshell 15w50 oil.					
Mech. <u>Troy Van Sluys</u> Cert.# <u>A&amp;P 399704858 IA</u>					
 <b>Western Shore Aviation</b> N6187 Resource Dr. Sheboygan Falls, WI 53085 920.467.6151					N220WJ (Cirrus SR22 s/n 0823 ) Feb. 24, 2005 Hobbs: 190.5
Replaced Alternator with New p/n 646843A1 s/n 005BA044. Replaced Rt side engine baffles p/n 15471-001 & 15487-001. C/W Oil and filter change ( insp. old filter) serviced with Aeroshell 15w50 oil.					
Mech. <u>Troy Van Sluys</u> Cert.# <u>A&amp;P 399704858 IA</u>					









**CONTINENTAL MOTORS**

A Teledyne Technologies Company

P.O. Box 90 Mobile AL 36601 + 334-438-3411



**GAMA**

Member Of GAMA  
General Aviation Manufacturing Association

FORM No. ELB-01P  
© 1999 TELEDYNE TECHNOLOGIES INCORPORATED



Teledyne Continental Motors, Inc.  
2039 BROAD STREET, BUILDING 96  
MOBILE, ALABAMA 36615

## ENGINE REPAIR OR OVERHAUL WORK ORDER

FAA REPAIR STATION: TLYR435X

WORK ORDER #: 7506WR07

DATE WORK RECEIVED: 2-23-06	DATE WORK COMPLETED: 8-7-06
ENGINE MODEL: IO-550-N 27	OWNER/ FBO: Western Shore Aviation
ENGINE SERIAL NUMBER: 917115	ADDRESS: N 6187 Resource Dr.
ENGINE TOTAL TIME: 325.0	CITY: Sheboygan Falls STATE: WI ZIP: 53085
	PHONE (H) PHONE (W) 920-467-6151
DESCRIPTION OF WORK TO BE ACCOMPLISHED: (NUMBER EACH ITEM)	CORRECTIVE ACTION TAKEN
1. As reported, aluminum debris in oil filter. Inspect and repair engine as required.	Engine disassembled, cleaned, inspected, repaired as required and reassembled IAW TCM's Instructions for Continued Airworthiness. Engine assembled using new seals, gaskets, "O" rings, lock plates, lock tabs, main bearings, thrust washers, rod bearings, rod bolts, rod nuts, piston pins and hardware as required. MECHANIC: H. Duck INSPECTOR: R. Robbins
2. Number 5 and 6 cylinder skirts damaged.	Installed 6 each repaired, serviceable cylinder and valve assemblies P/N 655932A3, with new balanced piston set P/N 654857BP, new piston rings P/N 654716. MECHANIC: H. Duck INSPECTOR: R. Robbins
3. Number 5 and 6 cylinder pistons damaged.	Replaced all pistons with new P/N 654857BP piston set. MECHANIC: H. Duck INSPECTOR: R. Robbins
4. Camshaft and lifters damaged.	Installed new camshaft P/N 654084A1, S/N Z06FA017 with new intake lifters P/N 653888 and new exhaust lifters P/N 653877 as provided in EQ 7003. MECHANIC: H. Duck INSPECTOR: R. Robbins
5. Crankshaft damaged at number 5 and 6 rod journals.	Installed overhauled, serviceable crankshaft P/N 654432M010 S/N N04CA025. MECHANIC: H. Duck INSPECTOR: R. Robbins
6. Crankcase cracked at dorsal parting surfaces.	Installed new crankcase P/N 656623A14 S/N R06EA452. MECHANIC: H. Duck INSPECTOR: R. Robbins

FORM RS-WO-4 (JAN 04)  
Page 1 of 2

Revision Number	ORIGINAL
Revision Date	
Original Issue Date	January 23, 2004



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

MAKE: Cirrus  
MODEL: SR22  
S/N: 0375  
REG: NO. 437C  
WORK ORDER:  
12509-01-2009



Cirrus Design Factory Service Center

Repair Station No. YDSR55Y  
4514 Taylor Circle  
Duluth, MN 55811  
Phone: 218-788-3438

DATE: 2/18/2009  
A/C TSN: 16915  
HOBBS: 16915

#### AD Entries

(33) Research TCM 10-550 Series Airworthiness Directives Current thru FAA Bi Weekly 2009-03 and Service Bulletins Current thru SB08-13 for Engine S/N 917115. Complied with the Following: (34) Installed three-bolt control arms IAW TCM SB08-3. (35) Accomplished TCM Service Bulletin SB08-4 by Flushing Fuel System Hoses per SB Instructions. Leak Check Performed. No Leaks Found.

I have reviewed the file on this aircraft and the accompanying discrepancy forms. The aircraft, airframe, aircraft engine, propeller, or appliance identified was repaired/inspected in accordance with current requirements of the Federal Aviation Administration and is approved for return to service. Pertinent details of repair are on file at this Certified Repair Station CRS YDSR55Y.

DATE: 2/18/2009

SIGNED:

Karl Hagglund  
Certified Repair Station No. YDSR55Y

Work Order: 12509-01-2009

Printed by EBis 3 (dalcomedia.com)

ENGINE MODEL: 10-550-A  
(27)  
ENGINE S/N: 917115  
REG: NO. 437C  
WORK ORDER:  
12509-01-2009



Cirrus Design Factory Service Center

Repair Station No. YDSR55Y  
4514 Taylor Circle  
Duluth, MN 55811  
Phone: 218-788-3438

DATE: 2/18/2009  
A/C TSN: 16915  
HOBBS: 16915

#### Engine Entries

(25) Installed this TCM 10-550-A(27) Engine S/N 917115 into Aircraft N437C IAW CDC SR22 AMM 71-10. Engine has 325 Hrs TT, 0.0 Hrs TSTOH with Reconditioned TCM Cylinders. OEM TCM/ENGINE/SERVO/25 Magnetics, S/N D03JA1058 and S/N D03JA1059 have 325 Hrs TT. Installed New TCM Alternator #1 P/N 646843 IAW CDC SR22 AMM 24-30 and TCM Alternator Service Manual X30531-3. Retained Original EC410-1 Alternator S/N 0542985 for Continued Service and Installed onto this Engine IAW CDC SR22 AMM 24-30. Installed ONTIC Prop-Governor F/N D210760 S/N 00150 IAW CDC SR22 AMM 61-20. (26) Accomplished CDC Service-Bulletin SB24-11-08R1 by Removing Original 4-Port Engine-Mount Legs and Installing 6-Port Engine-Mount Legs P/N 15688-001, (TCM P/N 656794). IAW SB Instructions and TCM 10-550 OMI Manual X30565A. (28) Removed OEM Push-Rod Tube P/N 656772 from #2 Intake Position and Installed Push-Rod Tube with AIR-WOLF Aero/Oil Separator Fitting IAW AIR-WOLF Instructions. (32) Installed 8-Gal Phillips 20W50 Type-M Engine Oil IAW CDC SR22 AMM 12-10. Runup and leak check satisfactory. (39) Performed Initial Start-Up and Leak-Check of Engine Installation IAW CDC SR22 AMM 05-30. Leak-Check OK. Operational Check OK. Retorqued Exhaust Headers IAW CDC SR22 AMM 75-10. (40) Accomplished TCM Fuel-Injection Adjustment IAW SC07-3E. Follow-Up Leak-Check OK.

I have reviewed the file on this aircraft and the accompanying discrepancy forms. The aircraft, airframe, aircraft engine, propeller, or appliance identified was repaired/inspected in accordance with current requirements of the Federal Aviation Administration and is approved for return to service. Pertinent details of repair are on file at this Certified Repair Station CRS YDSR55Y.

DATE: 2/18/2009

SIGNED:

Karl Hagglund  
Certified Repair Station No. YDSR55Y

Work Order: 12509-01-2009

Printed by EBis 3 (dalcomedia.com)

N437C

SANTA FE

AERO SERVICES

Engine Log

121 Aviation Dr. • Bldg 4002 • Santa Fe NM 87507

Date: 4/14/09 Make: CIRRUS Model: SR22 S/N: 0375

Engine: N/A Hobbs: 1731.0 TTAF:

REMOVED FUEL FLOW TRANSDUCER P/N 680501CR S/N 125071 INSTALLED NEW TRANSDUCER P/N 680501CR S/N 139193. OPS AND LEAK CHECK SATISFACTORY.

Gerardo Ontiveros  
AEP 2819350

Work accomplished at Santa Fe Aero Services, LLC. Reference work order #1013

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

DATE: 6/15/09 A/C HRS: 1755.0 NO. 437C

Drained oil, checked filter. Serviced w/ 8qts AS15W50 & new 109 Filter. Run up & leak check OK.

Work Order(s): AC10209

Signed: Steve N. Wells

AP3037638

Glacier Jet Center of Montana  
Glacier Park International Airport  
Kalispell, MT 59901  
Phone (406) 755-5362  
Fax (406) 755-5900

DATE: 09/17/2009 A/C HRS: 1784.7 NO. 437C

OIL CHANGE - ENGINE WARM  
8 QUARTS AS 15W50 AND AA48108  
FILTER - CUT OPEN FILTER - NO DEBRIS  
FOUND - LOCKWIRED OIL FILTER - OPS.  
CHECK GOOD - HOBBS 1784.7 GLACIER

Work Order(s): AC-10326

Signed: Rick K. Kasper

ATP 1944837

Glacier Jet Center of Montana  
Glacier Park International Airport  
Kalispell, MT 59901  
Phone (406) 755-5362  
Fax (406) 755-5900

11-12-09

1811.7

COMP TEST @ 75/100 @ 75/100 @ 75/100 @ 75/100 @ 75/100  
@ 75/100 - CLEANED FUEL SYSTEM - CLEANED NG  
AND FILTER 15-50 OIL - CLEANED SPARK  
PLUGS - MAG TESTING OK - SET OTHER CIRCUITS  
11-12-09

I certify that this engine has been inspected in accordance with annual inspection and was determined to be in air worthy condition date NOV-12-2009  
Total hours 1811.7 Signed: [Signature]

AT 1636353



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 →					
5-27-10	1900	.4			Drained oil & removed filter, installed 8 qts AS1550, installed new AA48108 filter & safe tied. Inspected old filter OK. Test ops OK. Steve N. Weller AP 4944837
10-20-10	1948				Drained oil, Insp. Filter, No contamination. Installed & safed new CH48108 filter & serviced w/ 8 qts AS 1550, run up & leak check OK. Steve N. Weller AP 3037638
	TET	598.3			
	TSTOH	2733			



4170 US HWY. 2 EAST KALISPELL MT. 406-755-5362

12-14-10, N437C, SR22-0375, TAT / HOBBS -1971.6, IO550N, S/N 917115, TSR-280.1, TET-605.1

Accomplished Annual Inspection this date IAW Cirrus 100hr/Annual Inspection checklist from AMM Sec. 5-20 and required ICAW & and TCM SID 97-3E. Oil drained and filter inspected, no contamination found. Serviced W/ AS 15W50 and new AA48108 filter installed. Compression check results #1-70, #2-74, #3-76, #4-70, #5-74, #6-70, all over 80 PSI ref. Mag's removed and sent to Edwards Jet Center for 500 Hr. Insp. Reinstalled same Mag's in same positions after made serviceable by Edwards Jet Center. Yellow tags in A/C records. Mag's timed to engine and run up check good. Post Inspection run up performed and all op's & leaks checks good. AD's checked through 2010-25 and compliance record in A/C logs. I certify that this Engine has been inspected IAW a Annual / 100hr. Inspection and was determined to be in Airworthy condition. Pertinent details are on file at this facility under W/O AC-10684.

Steve N. Weller IA 3037638

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 →					
12-21-10	TAT/Hobbs	1973.2			Removed & replaced RT MAG w/ overhauled Mag P/N 10-500556-1 S/N (on) DOYLA 092. Timed & run up. Leak & ops check good. Steve N. Weller AP 3037638



4170 US HWY. 2 EAST KALISPELL MT. 406-755-5362

5-12-11, N437C, TAT / HOBBS 2014.7

Drained oil, removed and inspected filter, no contamination found. Serviced W/ 8 QTS AS 15W50 oil and installed new filter CH48108 and safe tied. Washed engine and run-up performed, and leak checks good.

Steve N. Weller AP 3037638

Date 12-13-2012 Tach 2109 T.T. 744.4

I certify that this Engine has been inspected in accordance with a 100hr / Annual inspection and was determined to be in airworthy condition. Other details of this inspection are on file at this facility under W.O. # AC-11019. Signed Michael S. Pines AEP3558233 I.A. Edwards Jet Center - Kalispell, MT

① changed oil and filter, serviced with dewshell 15W50 and AA48108 filter.  
② Gnd run eng. for leak and ops ck. - check good.  
③ A.D. compliance in this folder.

DIFFERENTIAL COMPRESSION TEST					
#1	#2	#3	#4	#5	#6
80	80	80	80	80	80
76	72	74	75	76	75



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 →

Date 12-28-13 Tach 2236.6 T.T. 870.1

I certify that this Engine

Has been inspected in accordance with a 100 hr. / Annual Inspection and was determined to be in airworthy condition.

Other details of this inspection are on file at this facility under

W.O. # AC-11405

Signed Michael R. Pross ACP 355233 IA

Edwards Jet Center - Kalispell, MT

Glacier

#### DIFFERENTIAL COMPRESSION TEST

#1	#2	#3	#4	#5	#6
80	80	80	80	80	80
74	74	76	74	74	74

1-3-14 Date 1-3-14 Tach 3390.4 T.T. 1027.5

I certify that this Engine

Has been inspected in accordance with a 100 hr. / Annual Inspection and was determined to be in airworthy condition.

Other details of this inspection are on file at this facility under

W.O. # AC-11758

Signed Michael R. Pross ACP 355233 IA

Edwards Jet Center - Kalispell, MT

Glacier

#### DIFFERENTIAL COMPRESSION TEST

#1	#2	#3	#4	#5	#6
80	80	80	80	80	80
74	74	76	74	70	74

5-23-14 Tach 2444.1

T.T. 1021.2

Changed oil and filter. Serviced with 8 Qts heroshell 15W50. Filter PN: CH48108-1. Post run up and leak check good.

James McQuinn  
A/P 2738734

- ① changed <sup>oil</sup> filter, A/N CH48108-1
- ② Gnd run engine for ops and leak ck. Ckd good.
- ③ A.D. Compliance in this folder.

① changed oil and filter, Suced with 8 qts Aeroshell 15W50 and AA48108-2 filter.

② C/W 500 hr mag. sup. (Both)

③ Reinstalled repaired oil cooler.

note see maint. release for mags

and oil cooler.

④ cleaned fuel nozzles.

⑤ Gnd run engine for ops/leak ck. Ckd good.

A.D. Compliance in this folder.

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 →

9-5-14 2498.9 Hobbs TAT

Changed oil & filter, Insp filter no contamination noted, serviced w/ 8/qts AS 15W50: new CH48108 filter leak: op's check good.

GSC w/o # AQ-12018

Allen Wells

AP 3037638



4170 US Hwy. 2 East, Kalispell MT 59901 406-755-5362

2-10-15, N437C, SR22-0375, TAT & HOBBS 2452.2

IO550N, S/N 917115, TSN 1175.7

Accomplished Annual / 100 Hr. Inspection this date IAW 14 CFR part 43 Appx. D & using Cirrus 100Hrr. /

Annual Inspection checklist from AMM Sec. 5-20 as a guide. Drained oil, inspected filter, no

contamination. Serviced W/ 8 Qts. AS 15W50 & new CH48108-1. All compression 70/80 or better.

Cleaned fuel nozzles. Checked MAG timing. Performed run up and all leak and op's checks good. I

Certify that this ENGINE has been inspected IAW an 100 Hr. / Annual Inspection, and was determined to

be in Airworthy condition. Pertinent details on file at this facility under W/O AC-12123.

Allen Wells AP 3037638 IA

6-11-15 2579.4 Hobbs

changed oil and filter. Suced with 8 qts Aeroshell 15W50 and CH48108-1 filter. Gnd run eng. for leak ck. Ckd good.

Michael R. Pross  
ACP 355233

07-21-15 2634.2 Hobbs

Changed oil and filter. Suced with 8 qts Aeroshell 15W50 and CH48108-1 filter. Gnd run engine for leak check. Ckd good.

Allen Wells  
A/P 3613811



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  
ENGINE SN  
REG. NO. 437C  
WORK ORDER 27753



Aircraft Solutions, LLC.

5125 W. Pilot Dr.  
Spokane, WA 99224  
Phone: (509) 838-8883

DATE: 10/9/2015  
A/C TSN: 2692.1  
ENG. TT  
TSMCH  
HOBBS 2692.1

#### Engine Entries

Found oil pressure transmitter oily, leaking thru body, removed and replaced with new transmitter part 12635-004. Drained oil and changed filter. Serviced with 7 QT's Aeroshell 15W50wt. Ground run and leak check good, approved for return to service.

The aircraft and/or component(s) on 437C was repaired and inspected in accordance with current FAR's rules of the Federal Aviation Regulations and was found Airworthy for return to service. Pertinent details of the repair are on file under Work Order No. 27753. Dated 10/9/2015.

DATE: 10/9/2015

SIGNED:

Pete Reed, A&P 3018502

Work Order: 27753

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Date 3-1-16 Tech 3710.1 T.T. 1346.6

I certify that this Engine  
Has been inspected in accordance with  
a 100 hr./Annual inspection and was  
determined to be in Airworthy condition.  
Other details of this inspection are on  
file at this facility under  
W/O # AC-0269

Signed Michael R. Smith A&P 3558233 LA  
Edwards Jet Center - Kalispell, MT  
GLACIER

A.P. 2/26/16-02

DIFFERENTIAL COMPRESSION TEST					
#1	#2	#3	#4	#5	#6
80	80	80	80	80	80
70	72	76	72	66	72



4170 US Hwy. 2 East Kalispell, MT 59901 406-755-5362

09-06-16, N437C, TAT2772.3

Drained oil, Inspected filter, no contamination noted. Serviced W/8 qts. AS 15W50 & new 108 filter. Run up & leak check ok.

Steve N. Wells A/P 3037638

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 →					

Date 10/30/17 HOBBS (TACH) / TSO / TAT / 2886.6 REG # N437C  
Drained oil and removed filter. Cut open  
filter and inspected. Check OK. Installed new  
filter, P/N CH48108 and serviced with  
8 quarts 15W-50 oil. Leak check good.

I CERTIFY THAT THE ABOVE MAINTENANCE / REPAIR WAS ACCOMPLISHED / INSPECTED IAW CURRENT FAR AND FOUND AIRWORTHY FOR RETURN TO SERVICE.

SIGNED Joshua Holcomb

CERT A+P 3962116

WORK ORDER AC-0832



4170 US HWY. 2 EAST KALISPELL MT. 406-755-5362

out of order



4170 US Hwy. 2 East Kalispell, MT 59901 406-755-5362

4-22-17, N437C, SR22-0375 TAT/hobbs-2813.1

TCM, IO-550-N, sn 917115, TSN-1536.6

Accomplished 100 Hr. Inspection this date IAW 14 CFR, part 43, appx. D & Cirrus 100Hr. / Annual Inspection checklist from Cirrus SR22 AMM Sec. 5-20. Oil drained & filter inspected, no contamination, serviced W / 8 Qts AS 15/50 & new 108 filter. Compression check all 66/80 or better. AD's checked through 2017-03. Performed run up and all operational & leak checks ok. I Certify that this Aircraft has been inspected IAW an 100 Hr. / Annual Inspection, and was determined to be in Airworthy condition. Pertinent details on file at this facility under W/O AC-0636

Steve N. Wells A/P 3037638



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.	



4170 US Hwy. 2 East Kalispell, MT 59901 406-755-5362

5-7-2018, N437C, SR22-0375 TAT/hobbs-2957.0

TCM-10-550-N, sn 917115, TSN-1685.5

PHC-J3YF-1RF, SN FP2006B, TSO-1321.5, TT 2957

Accomplished 100 Hr. Inspection this date IAW 14 CFR, part 43, appx. D & Cirrus 100Hr. / Annual Inspection checklist from Cirrus SR22 AMM Sec. 5-20 Oil drained & filter inspected, no contamination, serviced W / 8 Qts AS 15/50 & new 108 filter. Compression check #1 72, #2 70, #3 70, #4 74, #5 68, #6 74 over 80 PSI ref. AD's checked through 2018-07. Mags removed & reinstalled in same positions after made serviceable by Aircraft Magneto services (500 Hr. Insp.) Tags in Aircraft records. Timed to Engine 22\* BTC. Performed run up and all operational & leak checks ok. I Certify that this Engine has been inspected IAW an 100 Hr. / Annual Inspection, and was determined to be in Airworthy condition. Pertinent details on file at this facility under W/O AC-0992.

*Steve A. Wells* AP/TA 3037638



4170 US Hwy. 2 East Kalispell, MT 59901 406-755-5362

1-17-19, N437C, 22-0375, TAT 3066.8

Drained oil, removed & inspected filter, no contamination at this time. Serviced W/ new AA48108 filter & 8 Qts. As15W50, run up & leak check ok.

*Steve A. Wells* AP 3037638

05/24/19 N437C S/N: 0375 TAT/Hobbs: 3129.3

Engine: TCM 10-550-N, S/N: 917115, TSN: 1857.8

Accomplished 100hr/Annual Inspection this date in Accordance With 14 CFR Part 43 Appendix D, and Cirrus Inspection Checklist 5-30. Drained oil and removed filter. Cut open and inspected. No contamination found. Installed new AA48108-2 filter and serviced with 8qts Aeroshell 15W-50. Compression was as follows: #1- 62, #2- 60, #3- 62, #4- 68, #5- 52, #6- 62, all over 80psi. Removed and replaced induction air filter with new. All AD's checked through 2019-09. Engine run up & leak check good. Details on file at this facility under Shop Order # SO-11304.

I certify that this engine has been inspected in accordance with 100 Hr. inspection criteria and found to be in an airworthy condition, and is approved for return to service.

Signed: *Joshua Wilcomb* Date: 5/24/19

Rocky Mountain Aircraft Services  
F.A.A. Certified Repair Station # 7RKR476D  
Glacier Park International Airport  
Kalispell, MT 59901

CHECKED OR COMPLIED WITH THE FOLLOWING  
AIRWORTHINESS DIRECTIVES AND THE REFERENCED  
SERVICE BULLETINS  
BENDUTCM 2007200  
METHOD OF COMPLIANCE

Repeat	By	P/N	TCM	Block	P/N	P/N	PMA	Next	Due	500hrs	TSN	P/N	P/N
D	N	A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Repair													
Inspect													
Rev													
Airworthiness Directive/Service Bulletin													
74-28-09 Drive Bushing													
82-13-01 Green Dist Block													
82-20-01 Soft Flywts.													
94-01-03 Ignition Coil & Magnet													
94-06-09 Capacitor													
10-349278													
05-12-08 Impulse Coupling Inspection													
SB443B													
SB653													
SB658													
SB663A													
CSB 665A													
10-400615													

Signed: *Joshua Wilcomb* Date: 8/22/19  
Rocky Mountain Aircraft Services  
FAA Repair Station #7RKR476D  
Kalispell, MT 59901

ENGINE MODEL: IO550N  
ENGINE SN: 917115  
REG NO: 437C  
WORK ORDER: 29200

Aircraft Solutions dba Northwest Flight

6005 E. Ruter Ave. Suite 2  
Spokane, WA 99212  
Phone: (509) 838-8883

DATE: 1/22/2020  
A/C TSN: 3250.7  
ENG TT: 558.6  
TSN: 1685.5  
HOBBS: 3250.7

#### Engine Entries

Removed and cleaned and tested spark plugs; installed all new spark plugs pin URH832E. Drained oil. Changed oil filter. Inspected oil filter for contaminants. found ok. Serviced engine with 7 Qts. Aeroshell 15W 50. oil sample sent to Blackstone Ground run. Leak checked good.

The aircraft and/or component(s) on 437C was repaired and inspected in accordance with current FAR rules of the Federal Aviation Regulations and was found airworthy for return to service. Pertinent details of the repair are on file under Work Order No. 29200. Dated 1/22/2020.

DATE: 1/22/2020

SIGNED:

Pete Reed, ASEP 301350

Work Order: 29200

Printed by EBis 3 (datacommedia.com)

22 April 2020, N437C, SR22, S/N: 0375, TAT: 3283.9

Engine: IO 550N, S/N: 917115, TSO: 1917.4

Propeller: Hartzell PHC-J3YF-1RF, S/N: FP2006B, TSO: 1648.4

C/W Annual and 100 hr Insp. this date per CFR 14 part 43 appx. D & Cirrus Aircraft SR22 MM checklist 5-20 C/W ELT Inspection check per 91.207(d), ok for service, Batt next due 11 DEC 2023. AD's checked through 2020-08, and MSB's thru 22 April 2020 and AD compliance report in AC records. Removed and Replaced TKS Filters PN 908-1 Per Cirrus AMM 30-07. Drained oil, removed filter, cut open and inspected filter. Compression was 1-74, 2-74, 3-74, 4-74, 5-72, 6-76. over 80 psi reference. Mag timing checked good. Leak check and Operational checks good. Next Due April 2022. Run Up, Operational, and Leak checks good.

I Certify That this Engine has been inspected IAW an Annual Inspection and was determined to be in Airworthy condition approved for return to service. Pertinent details on file at this facility under SO - 119-12. Rocky Mountain Aircraft Services, CRS 7RKR476D.

Signed: *Steve A. Wells* Date: 4-22-20



Date	Total
	Hrs.

**AIRCRAFT MAGNETO SERVICE**  
8171 MULLAN ROAD  
MISSOULA, MONTANA 59808  
WWW.AIRCRAFTMAGNETOSERVICE.COM

**MAINTENANCE RELEASE**  
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 # 17231 are herein attached.

Dated 2 May 2018  
Inspected By [Signature]  
Cert # A/P 1862834

**SERVICEABLE**  
Name BENDIX (TCM) (CMI)  
Unit MAGNETO S6RSC-25  
Part # 10-500556-1 Ser. 1 D033A105  
Aircraft CIRRUS 101 N437C  
Disposition RETURN TO SERVICE  
Reason For Removal 500HR INSPECTION  
Removed By GTC Date  
AD or Service SEE REVERSE SIDE  
Bulb/ins OF TAG FOR LISTING  
Work 500HR INSPECTION IAW  
Performed CMI FORM #  
FAA Certificate No. X4-2002-3

5-7-2018, N437C, SR22

TCM-10-550-N, sn 917

PHC-J3YF-1RF, SN FP200, 10-500556-1, IT 2957

Accomplished 100 Hr. Inspection this date IAW 14 CFR, part 43, appx. D & Cirrus 100Hr. / Annual Inspection checklist from Cirrus SR22 AMM Sec. 5-20 Oil drained & filter inspected, no contamination, serviced W / 8 Qts AS 15/50 & new 108 filter. Compression check #1 72, #2 70, #3 70, #4 74, #5 68, #6 74 over 80 PSI ref. AD's checked through 2018-07. Mags removed & reinstalled in same positions after made serviceable by Aircraft Magneto services (500 Hr. Insp.) Tags in Aircraft records. Timed to Engine 22\* BTC. Performed run up and all operational & leak checks ok. I Certify that this Engine has been inspected IAW an 100 Hr. / Annual Inspection, and was determined to be in Airworthy condition. Pertinent details on file at this facility under W/O AC-0992.

John A. Heller A/P 3037638



4170 US Hwy. 2 East Kalispell, MT 59901 406-755-5362

1-17-19, N437C, 22-0375, TAT 3066.8

Drained oil, removed & inspected filter, no contamination at this time. Serviced W/ new AA48108 filter & 8 Qts. As15W50, run up & leak check ok.

John A. Heller A/P 3037638

05/24/19 N437C S/N: 0375 TAT/Hobbs: 3129.3  
Engine: TCM 10-550-N, S/N: 917115, TSN: 1857.8

Accomplished 100hr/Annual Inspection this date in accordance with 14 CFR Part 43 Appendix D, and Cirrus Inspection Checklist 5-30. Drained oil and removed filter. Cut open and inspected. No contamination found. Installed new AA48108-2 filter and serviced with 8qts Aeroshell 15W-50. Compression was as follows: #1- 62, #2- 60, #3- 62, #4- 68, #5- 52, #6- 62, all over 80psi. Removed and replaced induction air filter with new. All AD's checked through 2019-09. Engine run up & leak check good. Details on file at this facility under Shop Order # 50-11304.

I certify that this engine has been inspected in accordance with 100 Hr. inspection criteria and found to be in an airworthy condition, and is approved for return to service.

Signed: Joshua Kelcomb Date: 5/24/19  
Rocky Mountain Aircraft Services  
F.A.A. Certified Repair Station # 7RKR476D  
Glacier Park International Airport  
Kalispell, MT 59901

MAINTENANCE RELEASE  
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.

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

Date: 8/22/2019; Aircraft: N437C; Type: FIXED WING SNGL-ENG; S/N: 0375; Hobbs: TAT-3190.2 Engine TSN-1918.7  
Drained engine oil, took sample for analysis, and removed filter. Inspected filter for contamination, none noted at this time. Installed new AA48108-2 oil filter and serviced engine with 8 qts. Aeroshell 15W-50 engine oil. Ground run and leak checked OK.

This aircraft was inspected in accordance with current FAA regulations and is approved for return to service with respect to the work performed.

Signed: Joshua Kelcomb Date: 8/22/19  
Rocky Mountain Aircraft Services  
FAA Repair Station #7RKR476D  
Kalispell, MT 59901

ENGINE MODEL 10550N  
ENGINE S/N 917115  
REG NO 437C  
WORK ORDER 29200

Aircraft Solutions dba Northwest Flight

6005 E Rutter Ave. Suite 2  
Spokane, WA 99212  
Phone: (509) 838-8883

DATE: 1/22/2020  
A/C TSN: 3250.7  
ENG TT: 558.6  
TSMOH:  
HOBBS: 3250.7

#### Engine Entries

Removed and cleaned and tested spark plugs. Installed all new spark plugs per URHB32E. Drained oil. Changed oil filter. Inspected oil filter for contaminants. Found ok. Serviced engine with 7 Qts. Aeroshell 15W 50. Oil sample sent to Blackstone Ground run. Leak checked good.

The aircraft and/or component(s) on 437C was repaired and inspected in accordance with current FAR rules of the Federal Aviation Regulations and was found airworthy for return to service. Pertinent details of the repair are on file under Work Order No. 29200. Dated 1/22/2020.

DATE: 1/22/2020

SIGNED:

Pete Reed, A/P 301850

Work Order: 29200

Printed by EBis 3 (datcomedia.com)

22 April 2020, N437C, SR22, S/N: 0375, TAT: 3283.9,

Engine: 10 550N, S/N: 917115, TSO: 1917.4

Propeller: Hartzell PHC-J3YF-1RF, S/N: FP2006B, TSO: 1648.4

C/W Annual and 100 hr Insp. this date per CFR 14 part 43 appx. D & Cirrus Aircraft SR22 MM checklist 5-20 C/W ELT Inspection check per 91.207(d), ok for service, Batt next due 11 DEC 2023. AD's checked through 2020-08, and MSB's thru 22 April 2020 and AD compliance report in AC records. Removed and Replaced TKS Filters PN 908-1 Per Cirrus AMM 30-07. Drained oil, removed filter, cut open and inspected filter. Compression was 1-74, 2-74, 3-74, 4-74, 5-72, 6-76. over 80 psi reference. Mag timing checked good. Leak check and Operational checks good. Next Due April 2022. Run Up, Operational, and Leak checks good.

I Certify That this Engine has been inspected IAW an Annual Inspection and was determined to be in Airworthy condition approved for return to service. Pertinent details on file at this facility under SO - 119-12.

Rocky Mountain Aircraft Services, CRS 7RKR476D.

Signed: John A. Heller Date: 4-22-20



# Engine Service and Maintenance Record

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

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

Brought Forward

Date: 6/08/2020; Aircraft: N437C; Total Time:; Engine - Type: TCM IO-550-N, S/N: 917115, Time: 1955.1  
Removed LH Magneto P/N 10-500556-1 S/N: D04LA082 and LH Ignition Harness and Installed Surefly Ignition Module SIM6C S/N 6C-1420008 and New Horizon Ignition Harness CT16-11BS-SW as per STC SA04378CH & STC SE04349CH. Surefly AFM Supplement SF206Rev.B inserted into Airplane Flight Manual. Copies of Surefly ICA's SF1005 & SF2005 inserted in A/C Records. Affixed placard to A/C Instrument Panel stating: "This aircraft is equipped with an electronic ignition system that requires continuous electrical power. Do not operate aircraft with low battery voltage or an inoperative charging system". A/C run-up and function checked OK. Form 337 filed on June 8, 2020 for this Alteration.

The aircraft and or component identified above was altered IAW current FAA regulations and are approved for return to service. All pertinent details are on file at this repair station under SO-11977

Signed: Donald Lamb Date: 6/8/2020

Rocky Mountain Aircraft Services  
FAA Certified Repair Station # 7RKR476D  
Glacier Park International Airport  
Kalispell, MT 59901

Date: 8/20/2020; Aircraft: N437C; Hobbs: 3378.8; Engine - Type: TCM IO-550-N, S/N: 917115, Time: 2012.3  
Drained oil, took Blackstone Oil Sample, remove oil filter and sent in for analysis and refilled with 8 qts. of aeroshell 15W50 Oil. Adjusted Prop Gov. screw out one half turn. Ran A/C, able to get 2700 RPM. Cleaned Manifold Pressure sensor connector. A/C run-up function and leak checked OK  
The aircraft and or component identified above was repaired/ replaced/ inspected or adjusted IAW current FAA regulations and are approved for return to service. All pertinent details are on file at this repair station under SO-12170

Signed: Don Lamb Date: 8/20/20

Rocky Mountain Aircraft Services  
FAA Certified Repair Station # 7RKR476D  
Glacier Park International Airport  
Kalispell, MT 59901

N437C	ENGINE LOG BOOK ENTRY				7/2/20	
Cirrus	SR22	S/N 0375	Flight		Hobbs	3337.8
Continental	IO 550 N 27	S/N 917115	Flight		Hobbs	3337.8
Hartzell		S/N	Flight		Hobbs	

Removed cowling. Removed SureFly mag at left position S/N 6C-1420008 and installed new SureFly unit S/N 6C-4619003. Drained oil, sample taken for analysis. Removed top spark plugs. Removed oil filter and examined internal element for contamination, some noted. Installed top spark plugs and torqued. Installed new filter P/N AA48109 and 8 quarts Aeroshell 15W50 oil. Ground run, magneto check, and leak check found satisfactory. Adjusted oil pressure up 1 turn. Repositioned Airwolf outlet to correct position. Replaced starter drive assembly with overhauled assembly P/N 642083A120H by Horizon Aircraft Engine Services under WO #32631. Replaced starter with new 24V Tempest P/N PL13484 S/N 2000143. Performed borescope survey; found satisfactory. Installed cowling; landing light check found satisfactory. (Refer to Job #437C1 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

# Engine Service and Maintenance Record

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

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

Brought Forward

N.W. Air Repair Inc

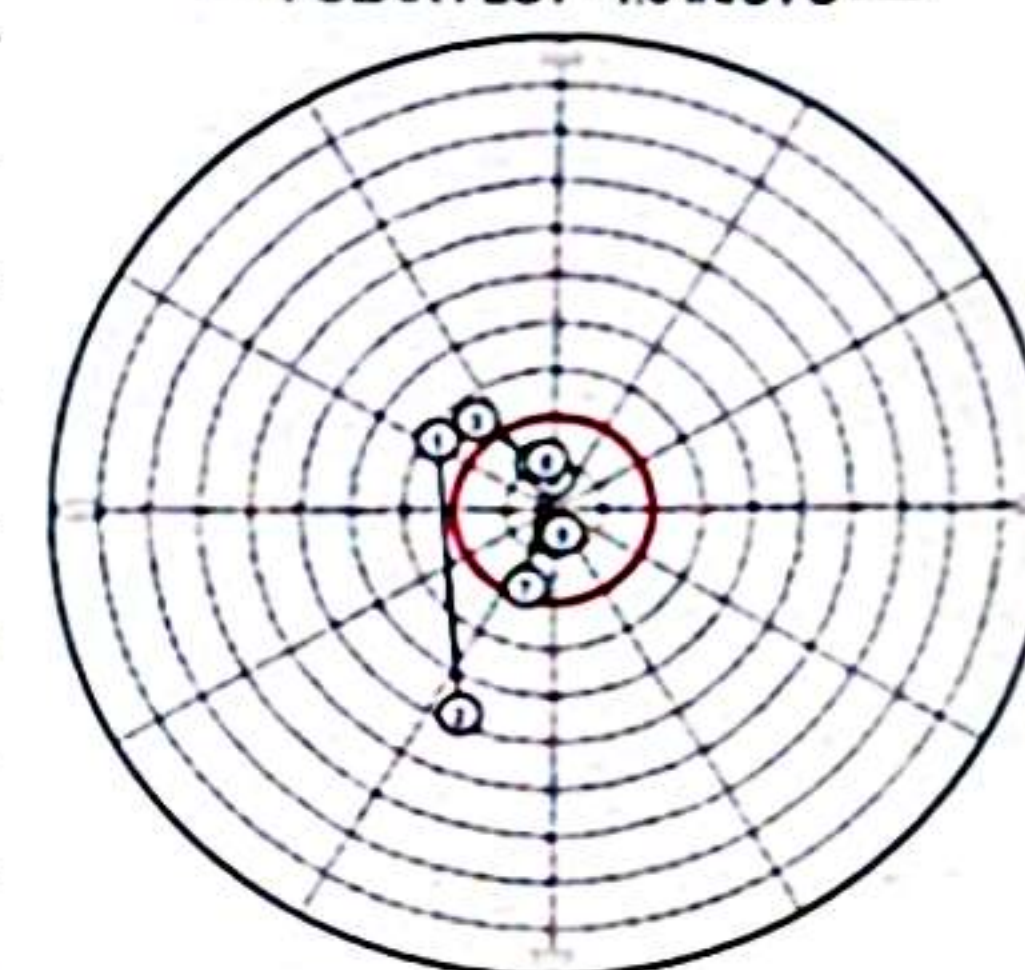
July 30, 2020

N437C Hobbs Time 3356.5 Hrs

Troubleshoot RP21 surging issue, performed compression check, borescoped cylinders, checked metered and unmetered fuel pressures, checked oil pressure at front of engine. Drained oil, changed filter, serviced with 7 qts Aeroshell 15W50. Removed prop governor for overhaul, install prop governor after overhaul, replaced mufflers with new AWI mufflers p/n A14836-001 and A14837-001, s/n 2438. Ran engine and adjusted Static RPM per Cirrus maintenance manual section 61-20.  
Graham L Goad A&P 2801174

## ENGINE/PROP DYNAMICALLY BALANCED

— POLAR PLOT - 1.0 IN/S FS —



## Operator Comments

Performed a dynamic propeller balance IAW FAA APPROVED Chadwick Helmut doc AW 9511-2 dated 12 June 1990 using D59 MicroVib II equipment and application note AN-MV2 Prop Rev 00 1 July 2003. Initial IPS of 276 @ 2563 rpm reduced to 056 IPS @ 2549 rpm by installation of AN hardware balance weights on spinner rear bulkhead. Jim Barker A&P 2755069 Aviation Resources, LLC 101 Airport Ave Hangar 7 Cumberland, WI 54829 Hangar (715) 822 5787 Cell (715) 491 1303 jim@aviationvibes.com www.aviationvibes.com

N437C Cirrus SR 22 NA 375 3335.8 Hrs  
IO 550N27 917115  
Front of engine  
MicroVib II SN:1177 Cal:03/30/2020  
Initial: 0.276 IN/S @ 2563.1 RPM Final: 0.056 IN/S @ 2549.5 RPM

Oper: Jim Barker  
Date: 06/30/2020

Date: 3/18/2021; Aircraft: N437C; Type: FIXED WING SNGL-ENG; S/N: 0375; Hobbs: 3416.5  
Drained engine oil and removed filter. Inspected filter for contamination, none noted at this time. Installed new AA48108-2 oil filter and serviced engine with 8qts. Aeroshell 15W50 engine oil. Ground run and leak checked OK.

This aircraft was inspected in accordance with current FAA regulations and is approved for return to service with respect to the work performed.

Signed: Jim Barker Date: 3-18-21  
Rocky Mountain Aircraft Services  
FAA Repair Station #7RKR476D  
Kalispell, MT 59901



1. Approving Civil Aviation Authority/Country: FAA/United States

4. Organization Name and Address: NEW HORIZONS 308 #B E PARTS MANUFACTURER

6. Item: 1 7. Description: HARNESS 8. Part N

12. Remarks: AIRWORTHINESS APPROVAL. THESE ARTICLES WERE MANUFACTURED BY THESE PMA PARTS ARE NOT. THIS HARNESS (LEFT SIDE ON FAA-PMA MAGGIE IGNITION REF: EC/RA# GA-D51519

# Engine Service and Maintenance Record

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

Engine - Type: TCM IO-550-N, S/N: 917115, Time: 1955.1 A082 and LH Ignition Harness and Installed Surefly Ignition Harness CT16-11BS-SW as per STC SA04378CH & STC 3 inserted into Airplane Flight Manual. Copies of Surefly ICA's placard to A/C Instrument Panel stating: "This aircraft is equipped with continuous electrical power. Do not operate aircraft with low battery on-up and function checked OK. Form 337 filed on June 8, 2020 for

altered IAW current FAA regulations and are approved for return to service under SO-11977

Date: 6/8/2020

Engine - Type: TCM IO-550-N, S/N: 917115, Time: 2012.3 15W50 Oil. Adjusted Prop Gov. screw out one half turn. Ran A/C, able to get 2700 RPM. Cleaned Manifold Pressure sensor connector. A/C run-up function and leak checked OK. The aircraft and/or component identified above was repaired/ replaced/ inspected or adjusted IAW current FAA regulations and are approved for return to service. All pertinent details are on file at this repair station under SO-12170

Signed: [Signature] Date: 8/20/20

Rocky Mountain Aircraft Services  
FAA Certified Repair Station # 7RKR476D  
Glacier Park International Airport  
Kalispell, MT 59901

N437C ENGINE LOG BOOK ENTRY 7/2/20					
Cirrus	SR22	S/N 0375	Flight	Hobbs	3337.8
Continental	IO 550 N 27	S/N 917115	Flight	Hobbs	3337.8
Hartzell		S/N	Flight	Hobbs	

Removed cowling. Removed SureFly mag at left position S/N 6C-1420008 and installed new SureFly unit S/N 6C-4619003. Drained oil, sample taken for analysis. Removed top spark plugs. Removed oil filter and examined internal element for contamination, some noted. Installed top spark plugs and torqued. Installed new filter P/N AA48109 and 8 quarts Aeroshell 15W50 oil. Ground run, magneto check, and leak check found satisfactory. Adjusted oil pressure up 1 turn. Repositioned Airwolf outlet to correct position. Replaced starter drive assembly with overhauled assembly P/N 642083A120H by Horizon Aircraft Engine Services under WO #32631. Replaced starter with new 24V Tempest P/N PL13484 S/N 2000143. Performed borescope survey; found satisfactory. Installed cowling; landing light check found satisfactory. (Refer to Job #437C1 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

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

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

Brought Forward

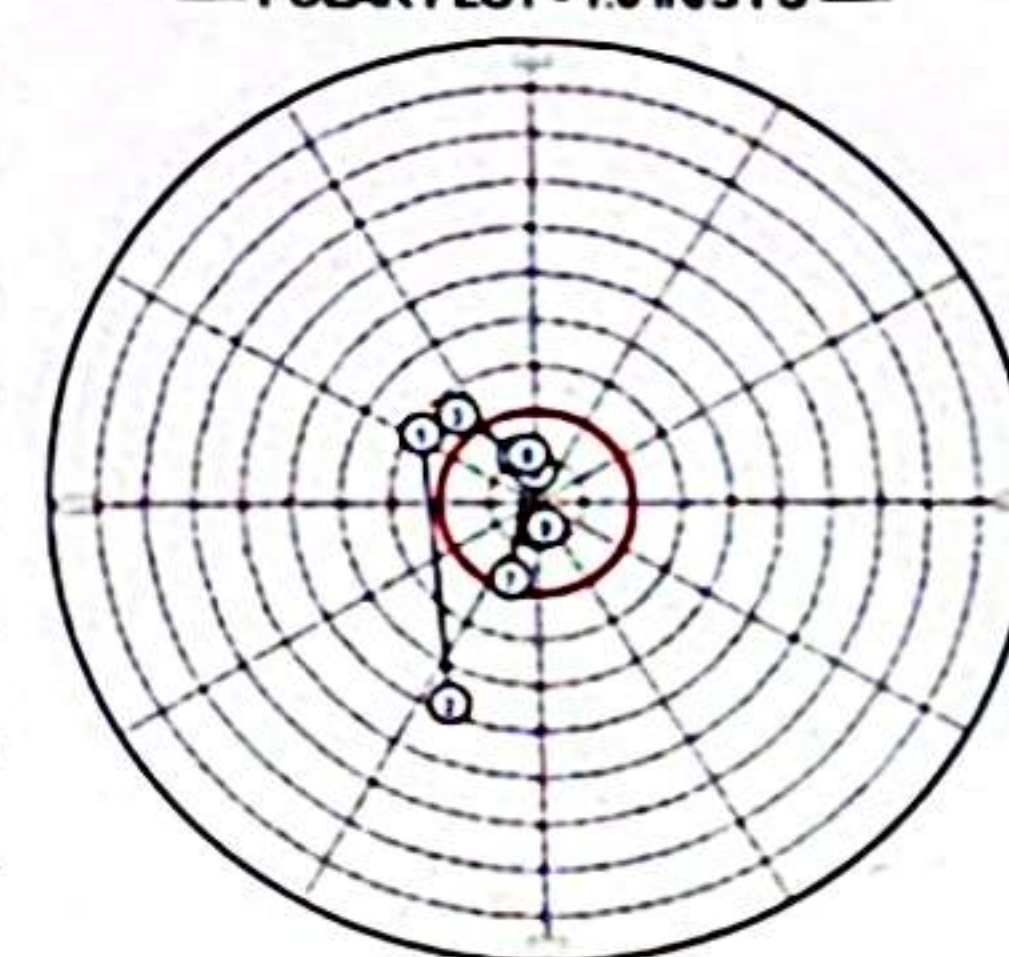
N.W. Air Repair Inc July 30, 2020

N437C Hobbs Time 3356.5 Hrs

Troubleshoot RP1 surging issue, performed compression check, borescoped cylinders, checked metered and unmetered fuel pressures, checked oil pressure at front of engine. Drained oil, changed filter, serviced with 7 qts Aeroshell 15W50. Removed prop governor for overhaul, install prop governor after overhaul, replaced mufflers with new AWI mufflers p/n A14836-001 and A14837-001, s/n 2438. Ran engine and adjusted Static RPM per Cirrus maintenance manual section 61-20. Graham L Goad A&P 2801174

## ENGINE/PROP DYNAMICALLY BALANCED

POLAR PLOT - 1.0 IN/S FS



### Operator Comments

Performed a dynamic propeller balance IAW FAA APPROVED Chadwick Helmuth doc AW 9511-2 dated 12 June 1990 using DSS Microvib II equipment and application note AN-MV2 Prop Rev 00 1 July 2003. Initial IPS of 276 @ 2503 rpm reduced to 0.056 IPS @ 2549 rpm by installation of AN hardware balance weights on spinner rear bulkhead. Jim Barker A&P 2755069 Aviation Resources, LLC 101 Airport Ave Hangar 7 Cumberland, WI 54829 Hangar (715) 822 5787 Cell (715) 491 1303 Jim@aviationvibes.com www.aviationvibes.com

N437C Cirrus SR 22 NA 375 3335.8 Hrs  
IO 550N27 917115  
Front of engine  
MicroVib II SN:1177 Cal:03/30/2020  
Initial: 0.276 IN/S @ 2563.1 RPM Final: 0.056 IN/S @ 2549.5 RPM

Oper: [Signature] Date: 06/30/2020 Jim Barker

Date: 3/18/2021; Aircraft: N437C; Type: FIXED WING SNGL-ENG; S/N: 0375; Hobbs: 3416.5  
Drained engine oil and removed filter. Inspected filter for contamination, none noted at this time. Installed new AA48108-2 oil filter and serviced engine with 8qts. Aeroshell 15w50 engine oil. Ground run and leak checked OK.

This aircraft was inspected in accordance with current FAA regulations and is approved for return to service with respect to the work performed.

Signed: [Signature] Date: 3-18-21  
Rocky Mountain Aircraft Services  
FAA Repair Station #7RKR476D  
Kalispell, MT 59901



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					
<p align="center">ETSN-2060.0 TSTOH-1735.0</p> <p>Date: 5/18/2021; Aircraft: N437C; Type: FIXED WING SNGL-ENG; S/N: 0375; Hobbs: 3426.5 Complied with Engine annual inspection per Cirrus Inspection checklist and operational check. Performed Compression Check #1/66 #2/68, #3/68, #4/66, #5/62, #6/66 all over 80 psi. Removed Cleaned/Gapped/Inspected and reinstalled spark plugs. Checked Magnetos for correct timing. Re-installed all previously removed cowlings. Ad's checked through biweekly 2021-10 Operational checks/Leak checks good.</p> <p>I certify that this engine has been inspected I.A.W. FAR 43 Appendix D and FAR 43.15C for 100 Hr./Annual inspection and was determined to be in airworthy condition.</p> <p>Signed: <u>[Signature]</u> Date: <u>5-18-21</u></p> <p>Rocky Mountain Aircraft Services F.A.A. Certified Repair Station #7RKR476D Glacier Park International Airport Kalispell, Montana, 59901</p>					
<p>Date: 8/05/2021; Aircraft: N437C; Type: FIXED WING SNGL-ENG; S/N: 0375; Hobbs: 3480.1 Drained engine oil and removed filter. Inspected filter for contamination, none noted at this time. Installed new AA48108-2 oil filter and serviced engine with 8 qts. Aeroshell 15W50 engine oil. Ground run and leak checked OK.</p> <p>This aircraft was inspected in accordance with current FAA regulations and is approved for return to service with respect to the work performed.</p> <p>Signed: <u>[Signature]</u> Date: <u>8-6-21</u></p> <p>Rocky Mountain Aircraft Services F.A.A. Certified Repair Station #7RKR476D Glacier Park International Airport Kalispell, MT 59901</p>					
<p>Date: 5/26/2022; Aircraft: N437C; Total Time: 3506.0; Engine - Type: TCM IO-550-N, S/N: 917115, Time: 2139.5, Last MOH: 1814.5-1 Performed Annual/100hr inspection this date IAW CFR 14 Pt. 43 Appx. D Drained oil, removed and inspected filter and screen for metal and contaminants, none noted. Oil analysis sample taken. Serviced with 8 qts. Aeroshell 15W50 and filter AA48108-2. Removed all spark plugs, cleaned, inspected, gapped, tested, rotated and reinstalled. Compression as follows: cyl#1-70, cyl#2-64, cyl#3-70, cyl#4-70, cyl#5-60, cyl#6-68, all over 80psi. Removed, cleaned, and reinstalled fuel nozzles. Removed and replaced intake filter P/N: BA-24. Cleaned fuel screens. Checked magneto-to-engine timing. Note: Owner chooses not to C/W TCM SB 500hr mag insp for RH magneto. Performed exhaust pressure leak test, no leaks noted. ADs checked through Bi-Weekly 2022-11. Complied with AD 2020-16-11, not applicable to engine overhaul date. Reinstalled any removed parts and/or components, washed engine and performed run up. Performed engine systems, indicating and leak checks, no discrepancies noted.</p> <p>"I certify that this powerplant has been inspected I.A.W. FAR 43 Appendix D and FAR 43.15C for 100 Hr. inspection and was determined to be in airworthy condition." All pertinent details are on file at this repair station under SO#</p> <p>Signed: <u>[Signature]</u> Date: <u>5-26-22</u></p> <p>Rocky Mountain Aircraft Services F.A.A. Certified Repair Station #7RKR476D Glacier Park International Airport Kalispell, Montana, 59901</p>					

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					
<p>Date: 10/17/2022; Aircraft: N437C; Hobbs: 3543.4; Total Time: 3543.4; Engine - Type: TCM IO-550-N, S/N: 917115, SMOH: 362.4 Drained engine oil, removed and inspected filter and screen. No metal or contamination noted at this time. Installed new AA48108-2 oil filter and serviced engine with 8 qts. Aeroshell W15W50 engine oil. Ground run and leak checked OK. <b>OBTAINED OIL SAMPLE FOR BLACKSTONE OIL ANALYSIS.</b> Removed top spark plugs. Checked timing on RH magneto, found to be 4 degrees retarded. Retimed to 22 degrees before TDC, torqued magneto base nuts. Reinstalled spark plugs and leads. Performed run-up and ops check, ops check good.</p> <p>The aircraft and or component identified above was repaired/ replaced/ inspected or adjusted IAW current FAA regulations. Pertinent details are on file at this repair station under SO-13590</p> <p>Signed: <u>[Signature]</u> Date: <u>10/17/2022</u></p> <p>Rocky Mountain Aircraft Services F.A.A. Certified Repair Station #7RKR476D Kalispell, MT 59901</p>					
<p>Date: 5/24/2023; Aircraft: N437C; Hobbs: 3552.1; Total Time: 3552.1; Engine - Type: TCM IO-550-N, S/N: 917115, Time: 2185.6, SMOH: 1860.6 Performed Annual/100hr inspection this date IAW CFR 14 Pt. 43 Appx. D Drained oil, removed and inspected filter and screen for metal and contaminants, none noted. Oil analysis sample taken. Serviced with 8 qts. Aeroshell 15W-50 and filter AA48108-2. Removed all spark plugs, cleaned, inspected, gapped, tested, rotated and reinstalled. Compression as follows: cyl#1/67 cyl#2/70 cyl#3/75 cyl#4/70 cyl#5/62 cyl#6/68 over 80psi. Master Orifice reading of 41. Cleaned fuel screens. Checked magneto-to-engine timing. CW ICA for Surefly Electronic Ignition system per doc SF1005 &amp; SF2005. CW ICA I-194 by replacement of Bracket Air Filter with new BA-24. Replaced #1 EGT Probe. Performed exhaust pressure leak test, no leaks noted. ADs checked through Bi-Weekly 2023-10. 2023-05-16 N/A to engine SN nor Crankshaft S/N. 2023-02-12 N/A to SAP Cylinder installation nor valves installed. Reinstalled any removed parts and/or components, washed engine and performed run up. Performed engine systems, indicating and leak checks, no discrepancies noted.</p> <p>"I certify that this powerplant has been inspected I.A.W. FAR 43 Appendix D and FAR 43.15C for Annual/100 Hr. inspection and was determined to be in airworthy condition." All pertinent details are on file at this repair station under SO# 13874.</p> <p>Signed: <u>[Signature]</u> Date: <u>05/24/2023</u></p> <p>Rocky Mountain Aircraft Services F.A.A. Certified Repair Station #7RKR476D Glacier Park International Airport Kalispell, Montana, 59901</p>					
<p>Date: 6/19/2024; Aircraft: N437C; Hobbs: 3591.3; Total Time: 3591.3; Engine - Type: TCM IO-550-N, S/N: 917115, SMOH: 1899.8 Performed Annual/100hr inspection this date IAW CFR 14 Pt. 43 Appx. D Drained oil, removed and inspected filter and screen for metal and contaminants, none noted. Oil analysis sample taken. Serviced with 8 qts. Phillips XC 20W-50 and filter AA48108-2. Removed all spark plugs, cleaned, inspected, gapped, tested, rotated and reinstalled. Compression as follows: cyl#1/69 cyl#2/66 cyl#3/70 cyl#4/68 cyl#5/74 cyl#6/66 over 80psi. Master Orifice reading of 42. Cleaned fuel screens. Checked magneto-to-engine timing. Replaced SureFly Magneto with new, SN: 6C-0124013, operational checks satisfactory. Performed exhaust pressure leak test, no leaks noted. ADs checked through Bi-Weekly 2024-10. Reinstalled any removed parts and/or components, washed engine and performed run up. Performed engine systems, indicating and leak checks, no discrepancies noted.</p> <p>"I certify that this powerplant has been inspected I.A.W. FAR 43 Appendix D and FAR 43.15C for Annual/100 Hr. inspection and was determined to be in airworthy condition." All pertinent details are on file at this repair station under SO#14474.</p> <p>Signed: <u>[Signature]</u> Date: <u>6/19/24</u></p> <p>Rocky Mountain Aircraft Services F.A.A. Certified Repair Station #7RKR476D Glacier Park International Airport Kalispell, Montana, 59901</p>					



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