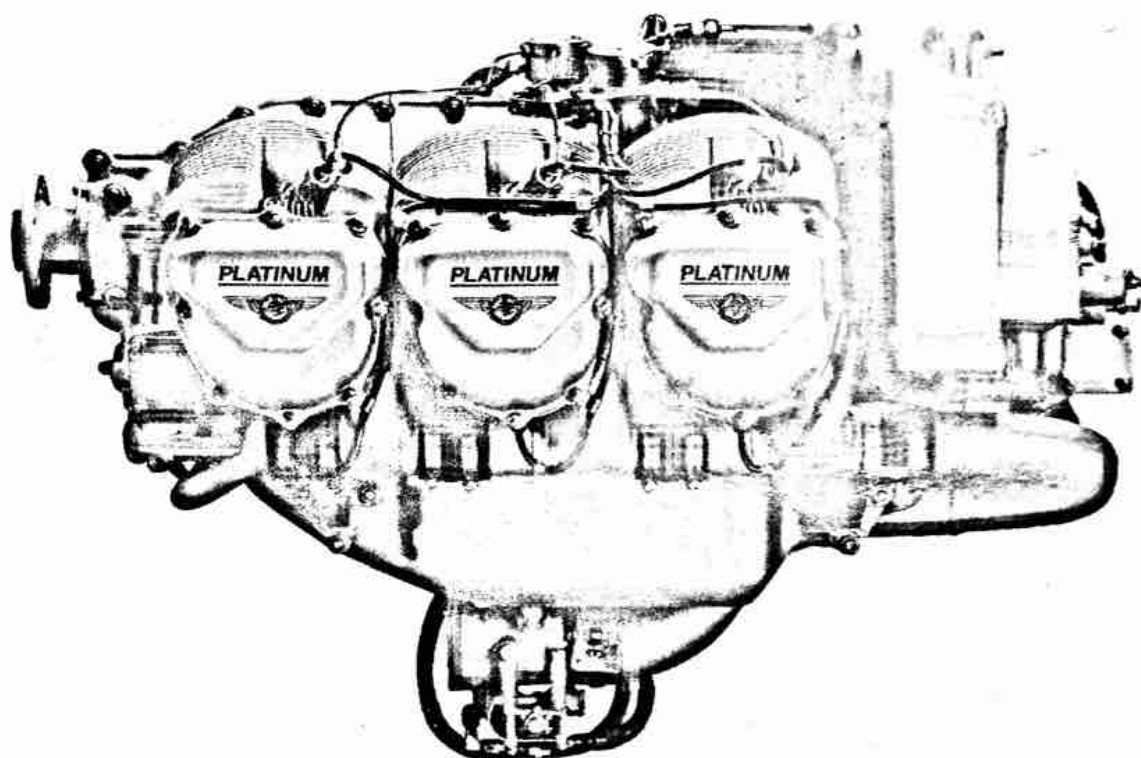


PLATINUM ENGINE LOG BOOK



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: 05/29/2007


This engine model I0550N46, Serial No. 691173 was manufactured on 05/29/2007 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.



TELEDYNE CONTINENTAL MOTORS

A TELEDYNE TECHNOLOGIES COMPANY

PRODUCTION CERTIFICATE NO. 505

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.	
12 July 07	5	5			THE FOLLOWING SUPPLEMENTAL TYPE CERTIFICATE NUMBER HAS BEEN INSTALLED ON THIS ENGINE SE10589SC  CDC _____ on 07/12/07. Cirrus Design Corporation Duluth, MN USA PC# 338CE

Lumanair, Inc. Aurora Municipal Airport Sugar Grove, IL.
 Change oil and filter. Serviced with 8qts of Aero Shell 15W50. Ground run up and leak check OK.

Lumanair, Inc. FAA Certified Repair Station # CGFR811C

Paritosh Patel

Date: 09/14/07 WO # LUM5121 Tach/Hobbs: 36.8

Lumanair, Inc. Aurora Municipal Airport Sugar Grove, IL.
 Changed oil.
 Serviced with Aeroshell 15W50.

Lumanair, Inc. FAA Certified Repair Station # CGFR811C

J. Watkinson

Date: 11/26/07 WO # LUM5229 Tach/Hobbs: 71

Apollo Aviation Co., Inc. Gulfport, MS 39507 (228) 863-8563
N 869SM HM: 1 04/18/2008

1. Serviced engine with AW100 Oil (8) quarts.
2. Replaced oil filter. Part No. CH48108. Resaftied.
3. Leak checked and performed ground run.

HOBBS 102 HOURS 85.3

Carl Bannister A&P 67465537

C Bannister A&P 67465537

Lumanair inc. Aurora Municipal Airport
Sugar Grove Ill.

Changed oil and filter cut filter open, inspected
for metal chips found filter clean and serviced
Engine parts of
performed engine run up for leak check found. OK

Date 8-26-08 WO # LUM5520 Tach. 204.0

D. J. Smith *James M.*

ENGINE MODEL
ENGINE S/N
REG NO 869SM
WORK ORDER
12118-10-2008



Cirrus Design Factory Service Center

Repair Station No. YD5R855Y
4515 Taylor Circle
Duluth, MN 55811
Phone 218-788-3438

DATE 10/7/2008
A/C TSN 228
ENG TT 228
HOBBS 228
Flt: 194.1

Engine Entries

(4) Removed Manifold pressure controller P/N 22-5650001, S/N KEN00391, S/N on KI000413 IAW TAT Report 22-6560001

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 YD5R855Y.

DATE: 10/7/2008

SIGNED:

James Chrisman
James Chrisman
Certified Repair Station No. YD5R855Y

Work Order: 12118-10-2008
Printed by EBis 3 (www.comedia.com)

Date

Date: 1/30/2009; Aircraft: N869SM; Type: SR22; S/N: 2596; Hobbs: 209.2; Total Time: 209.2
Fit Hobbs: 209.2 Hobbs: 244.2.

Engine Work ID 4478

Reconnected manifold pressure reference line, adjusted absolute controller to indicate 29.9 inches in accordance with Tornado Alley Inspection for Continued Airworthiness.
Ground run for ops and leak ck good.

Doug Seibel

A&P389765035 IA

Don't Sell 1A389765035

Wisconsin Aviation - Madison
3606 Corben Court
Madison, WI 53704
608-268-5003



Wisconsin Aviation - Watertown
1741 River Drive
Watertown, WI 53094
920-261-4567

Brought Forward

Lumanair, Inc.

Aurora Municipal Airport

Sugar Grove, IL.

Changed oil and filter cut filter open inspected for metal chips found filter clean and serviced engine with 7 qrts of Aeroshell W100.

Serviced O2 and checked tires pressure.

Performed engine run up for leak check found ok.

Lumanair, Inc. FAA Certified Repair Station # CGFR811C

N869SM

Date: 04-10-09 WO # LUM5739

Tach/Hobbs: 217.7

[Handwritten signatures]

ENGINE MODEL: IO-550-N
(46)
ENGINE S/N: 691173
REG NO: N869SM
WORK ORDER:
5811-06-2009

Kalamazoo Aircraft, Inc.
Repair Station No. K9AR289N
2729 E Milham Rd.
Kalamazoo, MI 49002
Phone: (269) 381-0790

DATE: 6/22/2009
A/C TSN: 283.1
ENG TT:
HOBBS: 283.1

Fit hobbs: 247.7

Engine Entries

ENGINE ANNUAL INSPECTION COMPLETED AND FOUND TO BE IN AN AIRWORTHY CONDITION... COMPRESSION CHECK: 1) 78/80, 2) 76/80, 3) 76/80, 4) 78/80, 5) 78/80, 6) 78/80... CHANGED OIL AND FILTER, INSPECTED REMOVED FILTER. NO DEFECTS FOUND. SERVICED ENGINE WITH 7 QUARTS OF AEROSHELL 100W PLUS OIL... RAN, LEAK AND OPS CHECK GOOD... ADJUSTED MANIFOLD PRESSURE UP TO 29 INCHES... RPM OPERATIONAL CHECKED GOOD... INSTALLED NEW SLAVE WASTEGATE P/N 22-6150026, S/N 0407 AND WASTEGATE LINKAGE P/N 22-5650008... REPLACED RH EXHAUST SYSTEM WITH KIT P/N 22-6180002... C/W TAT SB 08-01 RH EXHAUST ELBOW

The above work was performed in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. Details are on file at this certified repair station.

DATE 6/22/2009

SIGNED:

[Signature]
James R. Michalka
Certified Repair Station No. K9AR289N

Work Order 5811-06-2009

Printed by EBIS 3 (datcomedia.com)

[Large handwritten signature]

Brought Forward

Repair Station #NF2R029L ENGINE LOG #1
 Type CIRRUS SR22
 N869SM
 S/N 2596 REC. HR. METER 317.5
 OIL CHANGE-
 DRAINED ENGINE OIL AND CUT OPEN FILTER FOR INSPECTION. NO
 CONTAMINANTS FOUND. OIL SAMPLE TAKEN AND SENT TO
 BLACKSTONE LABS FOR ANALYSIS. INSTALLED NEW FILTER P/N
 158108 AND SERVICED ENGINE WITH 8 QTS OF AEROSHELL 100W
 MULTI GRADE. RAN AIRCRAFT AND INSPECTED FOR LEAKS. NO LEAKS
 DETECTED.
 THE AIRCRAFT, ENGINE, APPLIANCE, OR COMPONENT IDENTIFIED WAS
 MAINTAINED & INSPECTED IN ACCORDANCE WITH CURRENT REGULATIONS
 OF THE FEDERAL AVIATION AGENCY AND IS APPROVED FOR RETURN TO
 SERVICE. PERTINENT DETAILS OF THE REPAIR ARE ON FILE AT THIS
 REPAIR STATION UNDER W.O. #17598 DATE: AUGUST 13, 2009
 SIGNED: DONALD K. MORGAN *Donald Morgan*
 P.O. AIR CENTER, AURORA AIRPORT, SUGAR GROVE, IL 60554
 F.A.A. APPROVED REPAIR STATION #NF2R029L

ENGINE MODEL: IO-550-N **Kalamazoo Aircraft, Inc.**
 (46) Repair Station No. K9AR289N
 ENGINE S/N: 691173 2729 E Milham Rd
 REG NO N869SM Kalamazoo, MI 49002
 WORK ORDER Phone: (269) 381-0790
 5919-09-2009

DATE 9/4/2009
 A/C TSN 327.3
 ENG TT
 HOBBS 327.3

Engine Entries

INSTALLED NEW IGNITION HARNESS RH & LH KIT P/N 10-423874-33

The above work was performed in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. Details are on file at this certified repair station.

DATE: 9/4/2009

SIGNED:

James R. Malka

James R Malka
Certified Repair Station No. K9AR289N

Work Order: 5919-09-2009

Printed by EBis 3 (datcomedia.com)

Date: 2/23/2010; Aircraft: N869SM; Type: CIRRUS SR22; S/N: 2596; Hobbs: 336.9; Total Time: 336.9
 Flt Hobbs 336.9 Hobbs: 375.2.

Engine Work

Changed oil and filter (CH48108-1), cut filter, no metal noted, serviced engine with 8 qts. 15W50 Aeroshell.
 Replaced oil temperature sensor p/n: 12634-001 with new. Ground run for ops and leak check good.
 All work performed in accordance with approved/current technical data.

Benjamin Brake *Benjamin Brake*
AP 3223985

Wisconsin Aviation - Madison
 3606 Corben Court
 Madison, WI 53704
 608-268-5003



Wisconsin Aviation - Watertown
 1741 River Drive
 Watertown, WI 53094
 920-261-4567

Date: 5/03/2011; Aircraft: N869SM; Type: CIRRUS SR22; S/N: 2596
Fit Hobbs: 464.9 Hobbs: 517.1

Engine Work

Changed oil and filter (CH48108-1), cut filter, no metal noted, serviced engine with 7 qts. 15W50 Aeroshell.
Ground run for ops and leak check good.

All work performed in accordance with approved/current technical data. *↓ Vantapool / ACP 2817060*

Wisconsin Aviation - Madison
3606 Corben Court
Madison, WI 53704
608-268-5003



Wisconsin Aviation - Watertown
1741 River Drive
Watertown, WI 53094
920-261-4567

Date: 8/11/2011; Aircraft: N869SM; Type: SR22; S/N: 2596; Hobbs: 471.5; Total Time: 471.5; Engine - Type: IO-550N46 Turbo STC, S/N: 691173, Time: 471.5; Prop - Type: PHC-J3YF-1N, S/N: FP5902B, Time: 471.5
Hobbs: 526.4 Hobbs: 471.5

Engine Work

Completed an Annual inspection in accordance with FAR 43, Appendix D and Tornado Alley Turbo Service Manual. Compression test as follows: #1) 46/80, #2) 46/80, #3) 25/80, #4) 46/80, #5) 48/80, #6) 60/80. Drained oil and changed filter CH48108-1, took sample, cut filter, no metal noted. Installed #2, #3, #5, #6 TCM cylinders, p/n IO550N, s/n PGA 4220-2, 4220-3, 4220-5 and 4220-6 after repair by Poplar Grove Airmotive, Inc. CRS# YYBR664L, Wo# 4220, dated 8/4/2011. Installed #1 and #4 TCM cylinders with new p/n IO-550N s/n's PGA 4220-1 and 4220-4. Serviced engine with 8 qts Shell 080M.

Removed left and right magnetos and sent to Aircraft Systems for 500 hr inspection. Installed left magneto, p/n 10-500556-101, s/n D07EA127, after inspection by Aircraft Systems, Inc. CRS# KC2R947K, Wo# 45619, dated 8/2/2011. Installed right magneto, p/n 10-500556-101, s/n D07EA117, after inspection by Aircraft Systems, Inc. CRS# KC2R947K, Wo# 45619, dated 8/2/2011. Complied with Tornado Alley Turbo 300 hour / 3 year magneto filter change per replacement of magneto filter 1396-2 with new. Replaced all spark plugs RHB32E with new. Replaced all valve cover gaskets with new. Ground run for ops and leak check good.

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

Kevin K. Fenske
A&P2886592 IA

Wisconsin Aviation - Madison
3606 Corben Court
Madison, WI 53704
608-268-5003



Wisconsin Aviation - Watertown
1741 River Drive
Watertown, WI 53094
920-261-4567

Brought Forward

J.A. AIR CENTER AURORA AIRPORT/SUGAR GROVE, IL 60554
Repair Station #NF2R029L
Type CIRRUS SR22
N # 869SM
S/N 2596
ENGINE LOG #1
TT 536.4
TSMOH -----
REC. HR. METER 536.4
ENGINE MODEL ID-550-N(46B)
ENGINE S/N 691173

CHANGE OIL AND FILTER-
CHANGED THE OIL AND FILTER. OPENED AND INSPECTED THE FILTER
AND PROBLEMS FOUND. SERVICED THE ENGINE WITH 7 QTS OF AERO-
SHELL 50W100 MINERAL OIL AND A NEW AA48108-2 FILTER. WASHED
THE ENGINE, GROUND RAN AND LEAK CHECKED.
THE AIRCRAFT, ENGINE, APPLIANCE, OR COMPONENT IDENTIFIED WAS
REPAIRED & INSPECTED IN ACCORDANCE WITH CURRENT REGULATIONS
OF THE FEDERAL AVIATION AGENCY AND IS APPROVED FOR RETURN TO
SERVICE. PERTINENT DETAILS OF THE REPAIR ARE ON FILE AT THIS
REPAIR STATION UNDER W.O. # 19234 DATE: AUGUST 26, 2011
SIGNED: BRUCE REBECHINI *Bruce Rebechini* For
J.A. AIR CENTER, AURORA AIRPORT, SUGAR GROVE, IL 60554
F.A.A. APPROVED REPAIR STATION #NF2R029L

J.A. AIR CENTER AURORA AIRPORT/SUGAR GROVE, IL 60554
Repair Station #NF2R029L
Type CIRRUS SR22
N # 869SM
S/N 2596
ENGINE LOG #1
TT 571.9
REC. HR. METER 571.9
ENGINE MODEL ID-550-N(46B)
ENGINE S/N 691173

OIL CHANGE:
DRAINED OIL AND COLLECTED A BLACKSTONE OIL SAMPLE. CUT
OPENED AND INSPECTED THE OIL FILTER. INSTALLED NEW AA48108-2
OIL FILTER AND SERVICED WITH 8 QTS. OS AEROSHELL 100W OIL.
RAN ENGINE AND DETECTED NO OIL LEAKAGE.
THE AIRCRAFT, ENGINE, APPLIANCE, OR COMPONENT IDENTIFIED WAS
REPAIRED & INSPECTED IN ACCORDANCE WITH CURRENT REGULATIONS
OF THE FEDERAL AVIATION AGENCY AND IS APPROVED FOR RETURN TO
SERVICE. PERTINENT DETAILS OF THE REPAIR ARE ON FILE AT THIS
REPAIR STATION UNDER W.O. # 19301 DATE: SEPTEMBER 28, 2011
SIGNED: *Dan Murray* For
J.A. AIR CENTER, AURORA AIRPORT, SUGAR GROVE, IL 60554
F.A.A. APPROVED REPAIR STATION #NF2R029L

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.	
→				

Date: 1/16/2012; Aircraft: N869SM; Type: SR22; S/N: 2596; Hobbs: 531.0; Total Time: 531.0; Engine - Type: IO-550N46 Turbo STC, S/N: 691173, Time: 531.0; Prop - Type: PHC-J3YF-1N, S/N: FP5902B, Time: 531.0
 Hobbs: 598.2 Hobbs: 531.0

Engine Work

Completed an Annual inspection in accordance with FAR 43, Appendix D and Tornado Alley Turbo Service Manual AD11-25-51 (11/29/11) Starter Adapter inspection is not applicable by starter adapter installed is not on affected list per the AD. Cirrus SB 2X-74-01 (11/15/11) Fine wire spark plug replacement previously in compliance by Champion RHB32E Massive plugs already installed.

Compression test as follows: #1) 76/80, #2) 76/80, #3) 76/80, #4) 74/80, #5) 74/80, #6) 70/80. Drained oil and changed filter CH48108-1, took sample, cut filter, no metal noted. Serviced engine with 8 qts Phillips X/C 20W50 and 1 can Cam-Guard K-245-100. Cleaned, gapped and tested spark plugs. Checked mag to engine timing. Checked engine control travels and lubricated. Ground run for ops and leak check good.

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

Doug Seibel
 A&P389765035 IA

Doug Seibel SA 1A389765035

Wisconsin Aviation - Madison
 3606 Corben Court
 Madison, WI 53704
 608-268-5003



Wisconsin Aviation - Watertown
 1741 River Drive
 Watertown, WI 53094
 920-261-4567

Date: 5/25/2012; Aircraft: N869SM; Type: CIRRUS SR22; S/N: 2596; Hobbs: 561.6; Total Time: 561.6; Engine - Type: IO-550N46 Turbo STC, S/N: 691173, Time: 561.6; Prop - Type: PHC-J3YF-1N, S/N: FP5902B, Time: 561.6; Hobbs: 637.1 Flight Hobbs: 561.6

Airframe Work

Compression tested hot as follows: #1) 65/80, #2) 64/80, #3) 64/80, #4) 62/80, #5) 62/80, #6) 60/80. Changed oil and filter p/n CH48108-1, took sample, cut filter, no metal noted, serviced engine with 7 qts. Aeroshell M100. Ground run for operational and leak checks good.

Kevin K. Fenske
A&P 2886532 IA

Kevin K. Fenske IA 2886532

Wisconsin Aviation - Madison
3606 Corben Court
Madison, WI 53704
608-268-5003



Wisconsin Aviation - Watertown
1741 River Drive
Watertown, WI 53094
920-261-4567

Date: 7/12/2012; Aircraft: N869SM; Type: CIRRUS SR22; S/N: 2596; Hobbs: 571.5; Total Time: 571.5; Hobbs: 650.1 Flight Hobbs: 571.5

Engine Work

Changed oil and filter p/n CH48108-1, took sample, cut filter, no metal noted, serviced engine with 8 qts. Phillips XC20W50. Compressions are as follows- 1) 73/80 3) 65/80 5) 68/80 2) 74/80 4) 71/80 6) 66/80. Performed TCM SB M89-9 Crankcase Pressures Check. Relocated the breather from the left tail pipe as called out in the Tornado Alley STC to the original position per SR22 MM. Ground run for operational and leak checks good.

Dan Stammen
A&P 2636878 IA

Dan Stammen 2636878 IA

Wisconsin Aviation - Madison
3606 Corben Court
Madison, WI 53704
608-268-5003



Wisconsin Aviation - Watertown
1741 River Drive
Watertown, WI 53094
920-261-4567

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.	

ht Forward -

Date: 9/19/2012; Aircraft: N869SM; Type: CIRRUS SR22; S/N: 2596; Hobbs: 601.0; Total Time: 601.0
 Hobbs: 683.0 Flight Hobbs: 601.0
 Engine Work
 Performed crankcase pressure checks per TCM SB89-9. Compression test results: 73/80, 72/80, 72/80, 75/80, 75/80, 65/80. Borescope results indicated no abnormal problems. Replaced cylinder #3 & #5 intake gaskets p/n 649950 with new.
 Dan Stammen
 A&P 2636878 IA *Dan Stammen 2636878 IA*

Wisconsin Aviation - Madison
 3606 Corben Court
 Madison, WI 53704
 608-268-5003



Wisconsin Aviation - Watertown
 1741 River Drive
 Watertown, WI 53094
 920-261-4567

Date: 10/24/2012; Aircraft: N869SM; Type: CIRRUS SR22; S/N: 2596; Hobbs: 601.0; Total Time: 601.0
 Hobbs: 684.9 Flight Hobbs: 602.4
 Engine Work

Drained oil and changed filter p/n CH48108-1. Re-installed 6 cylinders after repair by Poplar Grove Airmotive, Inc, CRS# YYBR664L, Wo# 5067, dated 10/18/2012. Serviced engine with 8 qts Phillips 20W50MN. Replaced 3 spark plugs p/n RHB32E with new. Ground run for operational and leak checks good.
 Dan Stammen
 A&P 2636878 IA *Dan Stammen 2636878 IA*

Wisconsin Aviation - Madison
 3606 Corben Court
 Madison, WI 53704
 608-268-5003



Wisconsin Aviation - Watertown
 1741 River Drive
 Watertown, WI 53094
 920-261-4567

ENGINE MODEL:
IO-550-N(46)
ENGINE S/N: 691173
REG. NO: N869SM
WORK ORDER:
1116-10-2012



J.A. Air Center

Repair Station No. NF2R029L
43W730 US RT 30
Sugar Grove, Illinois 60554
Phone: 630.584.3200

DATE: 31 October, 2012
A/C TSN: 696.5
ENG TT: 696.5
TSMOH:
HOBBS: 696.5

Engine Entries

(1) Changed the oil and filter. Opened and inspected the filter for contaminants. Serviced the engine with 6 Qts. of Phillips 20W50 Type M and a new AA48108-2 filter. Ground ran and leak checked.

Maintenance Release

I certify the aircraft and/or component(s) on was repaired and/or inspected in accordance with current regulations of the Federal Aviation Administration and was found Airworthy for return to service. Pertinent details of the repair are on file at this repair station CRS NF2R029L under Work Order No. 1116-10-2012, Dated 31 October, 2012.

DATE: 31 October, 2012

SIGNED:

Work Order: 1116-10-2012

Bruce Rebechini
Certified Repair Station No. NF2R029L

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Date: 11/13/2012; Aircraft: N869SM; Type: CIRRUS SR22; S/N: 2596; Hobbs: 619.8; Total Time: 619.8
Engine Work

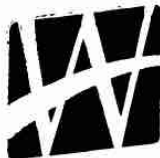
Hobbs 705.8 Flight Hobbs: 619.8

Changed oil and filter p/n CH48108-1, took sample, cut filter, no metal noted, serviced engine with 7 qts. Aeroshell 15W50. Replaced Champion spark plugs with new Tempest p/n URHB32E. Adjusted manifold pressure to Tornado Alley specifications 29.6 + 3.0 inches for approximately 32.0". Ground run for operational and leak checks good

Dan Stammen
A&P 2636878 IA

2636878 IA

Wisconsin Aviation - Madison
3606 Corben Court
Madison, WI 53704
608-268-5003



Wisconsin Aviation - Watertown
1741 River Drive
Watertown, WI 53094
920-261-4567

SERVICEABLE (COMPONENTS)

@ Cycle valve assy. TCM
COMPONENT NAME MFG. NAME
IO 550N PHA 5067-1-6
MODEL or TYPE SERIAL NO.

REPAIRED ~~OVERHAULED~~ TESTED INSPECTED

The aircraft component identified above 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 repair are on file at this repair station under:

OWNER: Wisconsin Aviation

WORK ORDER NO. 5067 DATE 10/18/12

[Signature]
SIGNED FOR:

POPLAR GROVE AIRMOTIVE, INC.
11619 U. S. ROUTE 76
POPLAR GROVE, IL 61065

FAA Approved Repair Station #YYBR664L

Installed new exhaust guide in
cyl # 4. Installed new intake
guides in cyl's # 2, 5, + 6.

Ground seats + valves.

Honed bores.

Fit + install

new rings on original piston

Repaired I.A.W. manual

X 30568A. Dated 14/00

END

		Last Overhaul		Engine Service and Maintenance Record Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
Hrs.	Min.	Hrs.	Min.	
→				

Date: 1/10/2013; Aircraft: N869SM; Type: CIRRUS SR22; S/N: 2596; Hobbs: 638.0; Total Time: 638.0; Engine - Type: IO-550N46 Turbo STC, S/N: 691173, Time: 638.0; Prop - Type: PHC-J3YF-1N, S/N: FP5902B, Time: 638.0

Hobbs: 727.0 Hobbs: 638.0

Engine Work

Completed an Annual inspection in accordance with FAR 43, Appendix D and Tornado Alley Turbo Service Manual. AD 11-26-07 (1/24/12) Magneto impulse coupling stop pin inspection is not applicable by magneto serial numbers installed not affected. AD 12-10-13 (6/8/12) Starter Adapter Shaft Gear inspection is not applicable by starter adapter has greater than 100 hours time in service at release of the AD. AD 12-03-06 (2/24/12) AvStar Fuel System fuel servo diaphragm inspection is not applicable by no fuel servo work performed during times specified in the AD. Cirrus SB 2X-74-01 (11/15/11) Fine wire spark plug replacement previously in compliance by Champion RHB32E Massive plugs already installed.

Compression test as follows: #1) 78/80, #2) 75/80, #3) 70/80, #4) 76/80, #5) 75/80, #6) 78/80. Master orifice of the day: 54. Visually inspected magneto points, checked good and gap was within specs per TCM. Reinstalled and timed mags to engine. Removed and inspected cylinder #5 injector, no defects noted. Cleaned and reinstalled injector. Cleaned, gapped and tested spark plugs. Checked engine control travels and lubricated. Ground run for operational and leak checks good.

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

Dan Stammen
A&P 2636878 IA

Dan Stammen 2636878 IA



Wisconsin Aviation - Madison
3606 Corben Court
Madison, WI 53704
608-268-5003

Wisconsin Aviation - Watertown
1741 River Drive
Watertown, WI 53094
920-261-4567

Date: 4/22/2013; Aircraft: N869SM; Type: CIRRUS SR22; S/N: 2596; Hobbs: 649.6; Total Time: 649.6

Engine Work

Changed oil and filter p/n CH48108-1, took sample, cut filter, no metal noted, serviced engine with 8 qts. PHIL X/C 20W50. Replaced #5 cylinder injector p/n TIGT550-19B with new. Ground run for operational and leak checks good.

Doug Seibel
A&P389765035 IA

Dug Seibel IA389765035

Wisconsin Aviation - Madison
3606 Corben Court
Madison, WI 53704
608-268-5003



Wisconsin Aviation - Watertown
1741 River Drive
Watertown, WI 53094
920-261-4567

ENGINE MODEL: IO-550-N(46)
ENGINE S/N: 691173
REG NO: N869SM
WORK ORDER: 1520-06-2013



J.A. Air Center

Repair Station No. NF2R029L
43W730 US RT 30
Sugar Grove, Illinois 60554
Phone: 630.584.3200

DATE: 19 June, 2013
A/C TSN: 767.2
ENG TT: 767.2
TSMOH:
HOBBS: 767.2

Engine Entries

- 1 Changed the oil and filter. Opened and inspected the filter for contaminants. Serviced the engine with 7 Qts. of Phillips 20W50 XC and a new AA48108-2 filter. Ground ran and leak checked.
- 2 Installed a new crankshaft oil seal P/N 641250 in accordance with IO-550 Permold Series Engine Maintenance and Overhaul Manual M-16, 10-9.2. Crankshaft Nose Oil Seal Installation. Installed the propeller with a new o ring P/N MS28775-228 in accordance with Cirrus Design Models SR22 and SR22T Maintenance manual P/N 13773-001, Chapter 60-10-2, A. (2).
- 3 Removed the left waste gate for repair by G&N Aircraft CRS# MW2R020L ref wo 69664 P/N 470842-0004 S/N N8N00120. Reinstalled with new gaskets P/N FG0120830 as per Tornado Alley continuous airworthiness procedures and maintenance manual. Ground ran, leak and functional checked.

Maintenance Release

The aircraft, engine, appliance or component identified was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and was found Airworthy for return to service. Pertinent details of the repair are on file at this repair station CRS NF2R029L and EASA.145.5424 under Work Order No. 1520-06-2013, Dated 19 June, 2013.

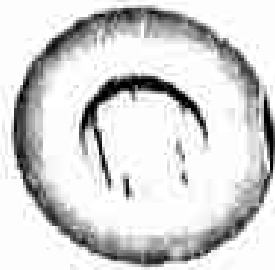
DATE: 19 June, 2013

SIGNED:

Bruce Rebechini
Bruce Rebechini
Certified Repair Station No. NF2R029L

Work Order: 1520-06-2013

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REPAIR ONLY

Only the labor operations requested by the customer have been accomplished on this part. The customer must complete the inspection and repair of this part before using. G & N Aircraft, Inc., assumes no liability of any nature of the performance, use or operation of this part due to customer not requesting complete inspection and overhaul. Details of repair on work order no.

69644

dated 06-17-2013 are on file at this agency


Authorized Signature

G & N Aircraft

1701 East Main St., Griffith, IN 46319

F.A.A. Approved Repair Station No. MW2R020L



470842-0004

S/N NSN 00120

Wastogate

Disassembled and
checked for repair
Replaced all parts
as needed for repair

Bevel tested and

set to specs
checked for bolts
No loose found

ORDER: 3868669 SN/LOT: 3Q12
 ITEM: 9
 PN: MS28775-228
 QTY: 1
 U/M: EA
 DESC: PACKING



1. Approving National Aviation Authority / Country: FAA/UNITED STATES		2. AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG				3. Form Tracking Number: 3868669	
4. Organization Name and Address: Cessna Aircraft Company (PC4) Cessna Parts Distribution Dept. 702 5800 E Pawnee, Wichita, KS 67218					5. Work Order/Contract/Invoice Number: 1285490		
6. Item:	7. Description:	8. Part Number:	9. Eligibility:	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:	
9	PACKING	MS28775-228	N/A	1	3Q12	New	
13. Remarks: AIRWORTHINESS APPROVAL - PARTS. THIS FORM IS NOT AN EXPORT APPROVAL.							
PO# 60-2948							
14. Certifies the items identified above were manufactured in conformity to: <input checked="" type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 13.				19. <input type="checkbox"/> 14 CFR 43.9 Return to Service. <input type="checkbox"/> Other regulation specified in block 13. Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.			
15. Authorized Signature: 		16. Approval/Authorization No.: ODA-100129-CE		20. Authorized Signature:		21. Approval/Certificate No.:	
17. Name (Typed or Printed): JOHNNY GLOVER		18. Date (m/d/y): JUN/06/2013		22. Name (Typed or Printed):		23. Date (m/d/y):	
<p style="text-align: center;">User / Installer Responsibilities</p> <p>It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.</p> <p>Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.</p>							

ENGINE MODEL: IO-550-N(46)
ENGINE S/N: 691173
REG NO: N869SM
WORK ORDER: 1589-07-2013



J.A. Air Center

Repair Station No. NF2R029L
43W730 US RT 30
Sugar Grove, Illinois 60554
Phone: 630.584.3200

DATE: 13 August, 2013
A/C TSN: 683.4
ENG TT: 683.4
TSMOH:
TACH: 683.4

Engine Entries

- 1 Trouble shot cause of excessive engine oil use and blow by out the breather. Performed crankshaft pressure test and found crankcase pressure over 168 mph at cruse power settings on a ground run. Checked compressions as follows; 1: 70, 2: 50 R/E, 3: 05 R, 4: 75, 5: 45 R, 6: 75.
Removed the original four #2,3,5 and 6 cylinders and inspected the cam and lifters. Installed 4 new TCM cylinder assemblies P/N 658178A2, #2 S/N AC13GA183, #3 S/N AC13GA297, #5 S/N AC13GA273 and #6 S/N AC13GA278 with new wrist pins P/N 630046 as per Continental Motors IO-550-N overhaul manual, Tornado Alley maintenance manual and instructions for continued airworthiness using new gaskets and hardware as needed. Drained the oil and replaced the filter. Serviced the engine with 8 qts of Phillips 20-50 Type M mineral oil and a new AA48108-2 filter. The engine was ground run, leak checked and flight tested for proper break-in.
Corrected aircraft and engine hours to 683.4 Flight meter 782.6

Maintenance Release

The aircraft, engine, appliance or component identified was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and was found Airworthy for return to service. Pertinent details of the repair are on file at this repair station CRS NF2R029L and EASA.145.5424 under Work Order No. 1589-07-2013, Dated 13 August, 2013.

DATE: 13 August, 2013

SIGNED:
Don Morgan
Certified Repair Station No. NF2R029L

Work Order: 1589-07-2013

Printed by EBis 3 (datcomedia.com)

ENGINE MODEL: IO-550-N(46)
ENGINE S/N: 691173
REG NO: N869SM
WORK ORDER: 1721-08-2013



J.A. Air Center

Repair Station No. NF2R029L
43W730 US RT 30
Sugar Grove, Illinois 60554
Phone: 630.584.3200

DATE: 12 September, 2013
A/C TSN: 692.5
ENG TT: 692.5
TSMOH:
TACH: 692.5

Engine Entries

- 3 Replaced cylinder number one intake rocker cover gasket and cylinder number three exhaust rocker cover gasket P/N 655705.

Maintenance Release

The aircraft, engine, appliance or component identified was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and was found Airworthy for return to service. Pertinent details of the repair are on file at this repair station CRS NF2R029L and EASA.145.5424 under Work Order No. 1721-08-2013, Dated 12 September, 2013.

DATE: 12 September, 2013

SIGNED:


Bruce Rebechini
Certified Repair Station No. NF2R029L

Work Order: 1721-08-2013

Printed by EBis 3 (datcomedia.com)

MAKE: Cirrus
MODEL: SR-22
S/N: 2596
REG NO: N869SM
WORK ORDER: 1721-08-2013



J.A. Air Center

Repair Station No. NF2R029L
43W730 US RT 30
Sugar Grove, Illinois 60554
Phone: 630.584.3200

DATE: 12 September, 2013
A/C TSN: 692.5
TACH: 692.5

Airframe Entries

- 1 Installed new field repair kit for alternate air door P/N ETI-G2-703-SR.
- 2 Installed new CHT probe for cylinder number three P/N 16578-001.

Maintenance Release

The aircraft, engine, appliance or component identified was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and was found Airworthy for return to service. Pertinent details of the repair are on file at this repair station CRS NF2R029L and EASA.145.5424 under Work Order No. 1721-08-2013, Dated 12 September, 2013.

DATE: 12 September, 2013

SIGNED:


Bruce Rebechini
Certified Repair Station No. NF2R029L

Work Order: 1721-08-2013

Printed by EBis 3 (datcomedia.com)

Last Overhaul

1. Approving National Aviation Authority/Country FAA/United States	AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG	3. Form Tracking Number 280006
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4. Organization Name and Address Continental Motors, 2039 Broad Street, Mobile, Alabama 36615	PC #508	5. Work Order/Contract/Invoice Number 350292 Case # 0000122180
---	---------	--

6. Item	7. Description	8. Part Number	9. Eligibility *	10. Quantity	11. Serial/Batch Number	12. Status/Work
1	CYL & VALVE ASSY LOADED	658178A2	N/A	4	See Block 13	New

13. Remarks
AIRWORTHINESS APPROVAL

Serial/Batch Number(s):

Serial	Description
AC13GA278	CYL & VALVE ASS
AC13GA273	CYL & VALVE ASS
AC13GA297	CYL & VALVE ASS
AC13GA183	CYL & VALVE ASS

14. Certifies the items identified above were manufactured in conformity to: <input checked="" type="checkbox"/> Approved design data and are in condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 13	19. <input type="checkbox"/> 14 CFR 43.9 return to Service. <input type="checkbox"/> Other regulation specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items were approved for return to service.
--	--

15. Authorized Signature <i>Daniel L. Nicholas</i>	16. Approval/Authorization No. DMIR-511010-CE	20. Authorized Signature	21. Approval Certificate No.
17. Name (Typed or Printed) Daniel L. Nicholas	18. Date (m/d/y) Jul/30/2013	22. Name (Typed or Printed)	23. Date (m/d/y)

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Block 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by user/installer before aircraft may be flown.

ORDER: 3910144 SN/LOT: N/A
 ITEM: 3
 PN: MS9970-116
 QTY: 1
 U/M: EA
 DESC: O-RING



1. Approving National Aviation Authority / Country: FAA/UNITED STATES		2. AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG				3. Form Tracking Number: 3910144	
4. Organization Name and Address: Cessna Aircraft Company (PC4) Cessna Parts Distribution Dept. 702 5800 E Pawnee, Wichita, KS 67218					5. Work Order/Contract/Invoice Number: 1295153		
6. Item:	7. Description:	8. Part Number:	9. Eligibility:	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:	
3	O-RING	MS9970-116	N/A	1	N/A	New	
3. Remarks: NO MESSAGE REQUIRED							
PO# 60-3125							
4. Certifies the items identified above were manufactured in conformity to: <input checked="" type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 13.			19. <input type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation specified in block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.				
15. Authorized Signature: <i>Dan J. Ehmke</i>		16. Approval/Authorization No.: ODA-100129-CE		20. Authorized Signature:		21. Approval/Certificate No.:	
17. Name (Typed or Printed): DAN J. EHMKE		18. Date (m/d/y): JUL/16/2013		22. Name (Typed or Printed):		23. Date (m/d/y):	
User/Installer Responsibilities							
<p>It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.</p> <p>Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.</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.	

ENGINE MODEL: IO-550-N(46)
ENGINE S/N: 691173
REG NO: N869SM
WORK ORDER: 1999-11-2013



J.A. Air Center
Repair Station No. NF2R029L
43W730 US R T 30
Sugar Grove, Illinois 60554
Phone: 630.584.3200

DATE: 06 November, 2013
A/C TSN: 696.5
ENG TT: 696.5
TSMOH:
TACH: 696.5

Engine Entries

- 2 Changed the oil and filter. Opened and inspected the filter for contaminants. Filled and submitted a Blackstone oil sample. Serviced the engine with 6 Qts. of Phillips 20W50 X/C and a new AA48108-2 filter. Ground ran and leak checked.
- 4 Push rod tube housing seals leaking on #3 cylinder exhaust and intake tubes. Removed and replaced push rod tubes with new seals on #3 cylinder, cleaned engine and airframe as required. Ran engine no leaks found.

Maintenance Release

The aircraft, engine, appliance or component identified was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and was found Airworthy for return to service. Pertinent details of the repair are on file at this repair station: CRS NF2R029L and EASA.145.5424 under Work Order No. 1999-11-2013, Dated 06 November, 2013.

DATE: 06 November, 2013

SIGNED:

Don Morgan
Certified Repair Station No. NF2R029L

Work Order: 1999-11-2013

Printed by EBis 3 (datcomedia.com)

December 17, 2013

N869SM

CONTINENTAL

HARTZELL

CIRRUS SR22

IO 550 N46

PHC-J3YF-1N

S/N 2596

S/N 691173

S/N FP5902B

FLIGHT 699.7 Hrs

FLIGHT 699.7 Hrs

FLIGHT 699.7 Hrs

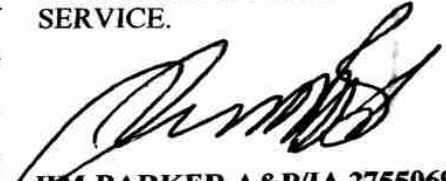
Hobbs 803.8 Hrs

Hobbs 803.8 Hrs

Hobbs 803.8 Hrs

Accessed aircraft and performed annual inspection as described in MM. Compression test performed M/O reading 80 #1 75/80, #2 76/80, #3 75/80, #4 75/80, #5 75/80, #6 77/80. Bore scope inspection check good. Checked mag to engine timing, found left at -1.25° and right at -3.55° from nominal, adjusted to nominal. Removed oil filter and inspected for contamination, none found. Installed oil filter with new P/N AA48108-2. Relocated inner cylinder baffles between 1-3 and 3-5 cylinders to correct marked location. Removed, cleaned and reinstalled engine induction air filter. Removed, inspected, resistance tested, cleaned and reinstalled spark plugs. Installed top cowling. Replaced slave waste gate cable, connecting hardware, adjusted for proper clocking. Replaced alternator #1 brush holder assembly with new p/n ALE-3045BS. Removed starter drive and routed to Bolduc Aviation for repair under W/O 27054, installed with energizer starter, Ground run performed. Adjusted idle mixture. Leak check and operational check found satisfactory. Closed aircraft.

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

Hangar (715) 822 5787

Cell (715) 491 1303

Email jim@aviationvibes.com

AVIATION RESOURCES, LLC

101 Airport Ave Hangar 7

Cumberland, WI 54829

www.aviationvibes.com

Date: 8/18/2014; Aircraft: N869SM; Type: CIRRUS SR22; S/N: 2596; Hobbs: 747.4; Total Time: 747.4
Hobbs: 855.5 Flight Hobbs: 747.4

Engine Work

Changed oil and filter p/n AA48108.2, took sample, cut filter, no metal noted, serviced engine with 7 qts. Phillips X/C 20W50. Ground run for operational and leak checks good.

Dan Stammen

A&P 2636878 IA

Dan Stammen 2636878 IA

Wisconsin Aviation - Madison
3606 Corben Court
Madison, WI 53704
608-268-5003



Wisconsin Aviation - Watertown
1741 River Drive
Watertown, WI 53094
920-261-4567

Brought For

Date: 10/22/2014; Aircraft: N869SM; Type: CIRRUS SR22; S/N: 2596; Hobbs: 790.3; Total Time: 790.3
Hobbs: 898.8 Flight Hobbs: 790.3

*** Engine Work ***

Changed oil and filter p/n AA48108.2, took sample, cut filter, no metal noted, serviced engine with 7 qts. Aeroshell 15W-50. Replaced fuel injector for cylinder #5 p/n TIGT-550-19BE with new. Ground run for operational and leak checks good.

Bobby Wangler
A&P 2702325 IA

Bobby Wangler A&P 2702325

Wisconsin Aviation - Madison
3606 Corben Court
Madison, WI 53704
608-268-5003



Wisconsin Aviation - Watertown
1741 River Drive
Watertown, WI 53094
920-261-4567

Date: 1/22/2015; Aircraft: N869SM; Type: CIRRUS SR22; S/N: 2596; Hobbs: 791.7; Total Time: 791.7; Engine - Type: IO-550N46 Turbo STC, S/N: 691173, Time: 791.7; Prop - Type: PHC-J3YF-1N, S/N: FP5902B, Time: 791.7

Hobbs: 900.2 Hobbs: 791.7

Engine Work

Completed an Annual inspection in accordance with FAR 43, Appendix D and Tornado Alley Turbo Service Manual. AD 14-05-29 (4/25/14) Superior Air Parts Cast Cylinders is not applicable by affected cylinders are not installed.

Changed oil and filter p/n AA48108-2, took sample, cut filter, no metal noted, serviced engine with 7 qts. Phillips X/C 20W50.

Compression test as follows: #1) 77/80, #2) 76/80, #3) 72/80, #4) 74/80, #5) 74/80, #6) 74/80. Master orifice of the day. 46/80. Cleaned, gapped and tested spark plugs. Checked mag to engine timing. Checked engine control travels and lubricated. Replaced Mag filter p/n 1396-2 with new. Next Due: 1/2018 or ACTT 1091.7. Installed helicoil in missing crankcase seal retainer and replaced bolt p/n 628321-38 with new. Replaced crank case seal p/n 641250 with new. Ground run for operational and leak checks good.

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

Dan Stammen
A&P 2636878 IA

Dan Stammen

Wisconsin Aviation - Madison
3606 Corben Court
Madison, WI 53704
608-268-5003



Wisconsin Aviation - Watertown
1741 River Drive
Watertown, WI 53094
920-261-4567

Date: 4/27/2015; Aircraft: N869SM; Type: CIRRUS SR22; S/N: 2596; Hobbs: 812.3; Total Time: 812.3
Hobbs: 920.8 Flight Hobbs: 812.3

Engine Work

Removed oil filter & inspected for metal, no defects noted. Serviced engine with 2 qts Phillips 20W50 XC Mineral. Reviewed engine data downloads in regards to post cylinder replacement flights, no defects noted.

Dan Stammen
A&P 2636878 IA

Dan Stammen

Wisconsin Aviation - Madison
3606 Corben Court
Madison, WI 53704
608-268-5003



Wisconsin Aviation - Watertown
1741 River Drive
Watertown, WI 53094
920-261-4567

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(46)
ENGINE S/N 691173
REG NO N869SM
WORK ORDER: 4129-06-2015

 **J.A. Air Center**
Repair Station No. NF2R029L
43W730 US RT 30
Sugar Grove, Illinois 60554
Phone: 630.584.3200

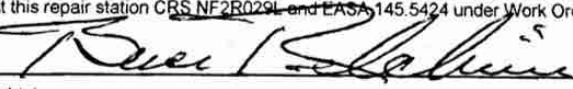
DATE: 11 June, 2015
A/C TSN: 819.2
ENG TT: 819.2
TSMOH:
TACH: 819.2

Engine Entries

Removed the LH waste gate and APC turbo controller and sent to Approved Turbo Components CRS No. U5AR184Y for test and overhaul. Reinstalled overhauled turbocharger controller P/N 470655-005 S/N MN00126 and left "master" waste gate P/N 470842-0004 S/N NBN00120 ref 8130-3's No. 34841 and 34842.
Adjusted slave waste gate as per Tornado Alley Turbo Report 22-6460007 for proper synchronized closing.
Ground and flight tested and found operation normal.

Maintenance Release
The aircraft, engine, appliance or component identified was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and was found Airworthy for return to service. Pertinent details of the repair are on file at this repair station CRS NF2R029L and EASA 145.5424 under Work Order No. 4129-06-2015, Dated 11 June, 2015.

DATE: 11 June, 2015

SIGNED: 
Bruce Rebechini
Certified Repair Station No. NF2R029L

Work Order: 4129-06-2015
Printed by EBis 3 (datcomedia.com)

Date: 4/23/2015; Aircraft: N869SM; Type: SR22; S/N: 2596; Hobbs: 805; Tach.; Total Time.; Engine - Type: S/N: Time:

Shop Order #: SH-15-0161

Discrepancy: 300

#1 CYLINDER VALVE SPRING BROKEN.

Corrective Action: 300

NUMBER ONE CYLINDER AND CONNECTING ROD WAS REMOVED AND SENT OUT FOR REPAIR TO POPLAR GROVE AIRMOTIVE, INC. BY DON DAVIS AVIATION. INSTALLED OVERHAULED CONNECTING ROD PART NUMBER 655911, SERIAL NUMBER AE07DB481 FOLLOWING OVERHAUL AT POPLAR GROVE AIRMOTIVE, INC. ON THEIR WORK ORDER NUMBER 6957, DATED 4/2/15 PER TCM OVERHAUL MANUAL M-16. THEN INSTALLED REPAIRED NUMBER 1 CYLINDER ASSEMBLY PART NUMBER 658538A1, SERIAL NUMBER PCAC957 FROM POPLAR GROVE AIRMOTIVE, INC. ON THEIR WORK ORDER NUMBER 6957, DATED 4/3/15. CYLINDER INSTALLED PER TCM OVERHAUL MANUAL M-16, TCM SB96-7C TORQUE LIMITS AND M89-7R1 ENGINE OPERATION AFTER CYLINDER REPLACEMENT AND/OR MAJOR OVERHAUL. NO LEAKS NOTED FOLLOWING RUN UP. NUMBER ONE CYLINDER COMPRESSION IS AS FOLLOWS 74/80.

Discrepancy: 301

Cylinder REQUEST INSPECTION OF ALL OTHER CYLINDER VALVES, SPRINGS AND ROCKER ARMS.

Corrective Action: 301

REMOVED OTHER ROCKER BOX COVERS. REMOVED ROCKER ARMS. INSPECTED VALVE SPRINGS AND ROCKER ARMS. NO DEFECTS NOTED ON CYLINDERS 3,5,4 AND 6, RE-INSTALLED THOSE ROCKER ARMS AND ROCKER BOX COVERS. CYLINDER NUMBER 2 REPLACED BOTH THE INTAKE AND EXHAUST ROCKER ARMS WITH NEW PART NUMBER 652966, DUE TO BUSHING PITTING AND WEAR. INSTALLED NEW ROCKER ARM SHAFTS PART NUMBER 656642. CYLINDER NUMBER 3 REPLACED JUST EXHAUST ROCKER ARM PART NUMBER 652966, AND SHAFT PART NUMBER 656642. WORK

PERFORMED PER TCM OVERHAUL MANUAL M-16, AND TCM SB 96-7C TORQUE LIMITS.

Discrepancy: 302

ENGINE OIL WAS DRAINED, OIL FILTER CUT OPEN FOR INSPECTION. METAL WAS FOUND IN OIL FILTER. PROPELLER GOVERNOR WAS REMOVED TO INSPECT OIL SCREEN IN GASKET. NO METAL WAS FOUND GOVERNOR WAS REINSTALLED BY DON DAVIS AVIATION.

Corrective Action: 302

INSTALLED NEW OIL FILTER PART NUMBER AA48108-2, SERVICED ENGINE WITH 8 QUARTS AEROSHELL 100 STRAIGHT MINERAL OIL. NO LEAKS NOTED AT THIS TIME.

Discrepancy: 303

CYLINDER #6 INTAKE STUD STRIPPED OUT.

Corrective Action: 303

REMOVED OLD STUD. INSTALLED NEW STUD PART NUMBER 401852 INTO THE NUMBER 6 CYLINDER INTAKE FOR THE TUBE HOLD DOWN COLLAR.

The aircraft, airframe, aircraft engine, propeller or appliance identified above was repaired and inspected in accordance with the current regulations of the Federal Aviation Administration and was found airworthy and is approved for return to service. Pertinent details of the repair are on file at this repair station.

Signed:

Dated: 4/23/15

Tri-State Aero, Inc. 6101 Flightline Drive Evansville, Indiana 47725 812-426-1221

out of order

Date	Total Time		Time Since Last Overhaul		Engine Service and Maintenance Rec Installations, Inspections, Airworthiness Directives, Special Insp Modifications and Service Bulletins
	Hrs.	Min.	Hrs.	Min.	

ht Fc

Date: 4/23/2015; Aircraft: N869SM; Type: SR22; S/N: 2596; Hcbbs: 805; Tach.; Total Time:

Shop Order #: SH-15-0161

Discrepancy: 2

RIGHT AFT SKEET TUBE NEEDS REPLACED.

Corrective Action: 2

REMOVED OLD SKEET TUBE. INSTALLED NEW LENGTH OF SKEET TUBE FROM RIGHT INTER COOLER TO CABIN HEAT EXCHANGER AS NEEDED.

Discrepancy: 3

WASTE GATE RIGGING.

Corrective Action: 3

REPLACED THE PINS AT THE SLAVE WASTE GATE. CHECKED RIGGING ON WASTE GATES, NO DEFECTS NOTED AT THIS TIME.

The airframe, airframe, aircraft engine, propeller or appliance identified above was repaired and inspected in accordance with the current regulations of the Federal Aviation Administration and was found airworthy and is approved for return to service. Pertinent details of the repair are on file at this repair station.

Signature: *[Handwritten Signature]*

Dated: 4/23/15

CRSAHTR102C 6101 Flightline Drive Evansville, Indiana 47725 812-426-1221

ENGINE MODEL: IO-550-N(46)
ENGINE S/N 691173
REG NO N869SM
WORK ORDER: 4258-07-2015



J.A. Air Center

Repair Station No. NF2R029L
43W730 US RT 30
Sugar Grove, Illinois 60554
Phone: 630.584.3200

DATE: 07 July, 2015
A/C TSN: 824.2
ENG TT: 824.2
TSMOH:
TACH: 824.2

Engine Entries

- 1 Changed the oil and filter. Opened and inspected the filter for contaminants. Filled and submitted a Blackstone oil sample. Serviced the engine with 8 Qts. of Phillips 20W50 X/C and a new AA48108-2 filter. Ground ran and leak checked.
- 2 Checked and reset the absolute pressure controller to 29.5 in at 170 deg oil temp per TAT ICA 22-6460004 rev C. No defects noted during ground run.
- 4 Checked status of CSB15-2 oil fitting N/A by engine model. Only applies to TSIO-550 engines.

Maintenance Release
The aircraft, engine, appliance or component identified was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and was found Airworthy for return to service. Pertinent details of the repair are on file at this repair station CRS NF2R029L and EASA 145.6424 under Work Order No. 4258-07-2015, Dated 07 July, 2015.

DATE: 07 July, 2015

SIGNED:

Bruce Rebechini
Bruce Rebechini
Certified Repair Station No. NF2R029L

Work Order: 4258-07-2015

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Date: 2/22/2016; Aircraft: N869SM; Type: CIRRUS SR22; S/N: 2596; Hobbs: 857.1; Total Time: 857.1; Engine - Type: IO-550N46 Turbo STC, S/N: 691173, Time: 857.1; Prop - Type: PHC-J3YF-1N, S/N: FP5902B, Time: 857.1

Hobbs: 965.5 Hobbs: 857.1

Engine Work

Completed an Annual inspection in accordance with FAR 43, Appendix D and Tornado Alley Turbo Service Manual.

Changed oil and filter p/n AA48108-2, took sample, cut filter, no metal noted, serviced engine with 8 qts. Phillips X/C 20W50. Compression test as follows: #1) 75/80, #2) 75/80, #3) 70/80, #4) 76/80, #5) 75/80, #6) 75/80. Master orifice of the day: 46/80. Cleaned, gapped and tested spark plugs. Checked mag to engine timing. Checked engine control travels and lubricated.

Ground run for operational and leak checks good. I certify that this engine has been inspected in accordance with an Annual inspection and was determined to be in airworthy condition.

Jon Weigand
A&P 3678294 IA

Jon Weigand IA 3678294

Wisconsin Aviation - Madison
3606 Corben Court
Madison, WI 53704
608-268-5003



Wisconsin Aviation - Watertown
1741 River Drive
Watertown, WI 53094
920-261-4567

HRS. MIN. HRS. Min.

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

Brought Forward

ENGINE MODEL IO-550-N (46)
ENGINE S/N: 691173
REG NO N869SM
WORK ORDER: 7814-09-2016

Kalamazoo Aircraft, Inc.

Repair Station No. K9AR289N
2729 E Milham Rd
Kalamazoo, MI 49002
Phone: (269) 381-0790

DATE: 9/20/2016
A/C TSN: 895.1
ENG TT: FLIGHTTIME: 895.1

Engine Entries

CHANGED OIL AND FILTER, INSPECTED REMOVED FILTER, NO DEFECTS FOUND, SERVICED ENGINE WITH 7 QUARTS OF AEROSHELL 15W50 OIL, RAN AND LEAK CHECK GOOD.

The above work was performed in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. Details are on file at this certified repair station.

DATE: 9/20/2016

SIGNED:

James R Michalka
Certified Repair Station No. K9AR289N

Work Order: 7814-09-2016

Printed by EBis 3 (datcomedia.com)

ENGINE MODEL IO-550-N (46)
ENGINE S/N: 691173
REG NO N869SM
WORK ORDER: 7890-02-2017

Kalamazoo Aircraft, Inc.

Repair Station No. K9AR289N
2729 E Milham Rd
Kalamazoo, MI 49002
Phone: (269) 381-0790

DATE: 4/5/2017
A/C TSN: 910.8
ENG TT: 910.8
FLIGHTTIME: 910.8

Engine Entries

I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION... COMPRESSION CHECK: 1) 76/80, 2) 78/80, 3) 64/80, 4) 72/80, 5) 72/80, 6) 76/80... CHANGED OIL AND FILTER, INSPECTED REMOVED FILTER, NO DEFECTS FOUND, SERVICED ENGINE WITH 8 QUARTS OF PHILLIPS 20W50 XC OIL... RAN, LEAK AND OPS CHECKED GOOD... C/W TORNADO ALLEY TURBO NORMALIZING ICA INSPECTIONS... INSTALLED NEW PROP CONTROL ROD END, SAFTIED, RAN AND OPS CHECKED GOOD... INSTALLED NEW NACA DUCT FROM LOWER COWL TO HEAT MIXER... INSTALLED NEW CLEVIS PIN IN RH WASTEGATE CONTROL CABLE, RAN AND OPS CHECKED GOOD... INSTALLED NEW TAILPIPE BONDING STRAPS... C/W TAT SI 08-01 50 HR CRANKCASE BREATHER DISCHARGE TUBE INSPECTION CLEANING, NEXT DUE 50 HRS... INSTALLED NEW RH TURBO LATERAL MOUNT BRACKET AND SAFTIED... C/W TAT SI 08-05 CLEANED AND SERVICED K&N INDUCTION AIR FILTER... C/W TAT SB 09-01 50 HR EXHAUST MANIFOLD INSPECTION... REMOVED #4 CYLINDER, INSTALLED NEW TCM CYLINDER & VALVE ASSEMBLY P/N 658595A2, CHECKED RING END GAP, ALL WORK COMPLETED PER TCM SERVICE INSTRUCTIONS AND OVERHAUL MANUAL, REINSTALLED BAFFLING AND EXHAUST, RAN AND LEAK CHECKED GOOD... C/W TAT FLEXIBLE TURBO SYSTEM LINES 10 YEAR REPLACEMENT, HOSE REPLACEMENT NEXT DUE IN 10 YEARS, RAN AND LEAK CHECKED GOOD... INSTALLED NEW LH EXHAUST MANIFOLD P/N 22-6850011 WITH NEW GASKETS, PER TORNADO ALLEY TURBO INSTALLATION INSTRUCTIONS... INSTALLED NEW RH WASTEGATE UPPER BRACKET AND BOLT.

The above work was performed in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. Details are on file at this certified repair station.

DATE: 4/5/2017

SIGNED:

James R Michalka
Certified Repair Station No. K9AR289N

Work Order: 7890-02-2017

Printed by EBis 3 (datcomedia.com)

MAKE: Cirrus
MODEL: SR22
S/N: 2596
REG NO N869SM
WORK ORDER: 7930-05-2017

Kalamazoo Aircraft, Inc.

Repair Station No. K9AR289N
2729 E Milham Rd
Kalamazoo, MI 49002
Phone: (269) 381-0790

DATE: 5/3/2017
A/C TSN: 915
FLIGHTTIME: 915

Airframe Entries

INSTALLED NEW PILOT'S PUSH TO TALK SWITCH AND OPS CHECKED GOOD.

The above work was performed in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. Details are on file at this certified repair station.

DATE: 5/3/2017

SIGNED:

James R Michalka

Work Order: 7930-05-2017

Printed by EBis 3 (datcomedia.com)

NO. 1000000
K ORDER:

Kalamazoo, MI 49002

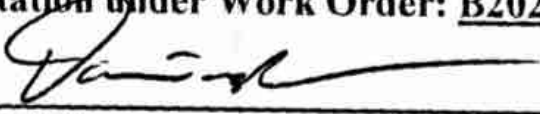


4128 40th Street S.E. • Grand Rapids, MI 49512
Phone: 616-974-1100 • Fax: 616-974-1111
F.A.A. Repair Station N3DR341N

AIRCRAFT MAINTENANCE ENTRY

Model: SR-22 Serial Number: 2596 Registration: N869SM
HOBBS: 1019.2 TAT: 910.8 Work Order: B20206

Performed eddy current inspection of suspected cracks in the #4 cylinder between the upper spark plug and fuel injector port. Cracks were CONFIRMED by this eddy current inspection. This examination was conducted in accordance with Current Federal Aviation Regulations, Aircraft Inspection Services Inc. Process Control Standard for surface Eddy Current - flaw detection, Doc. # ET-101 and only that work is approved for return to service. Pertinent details of this inspection are on file at this Repair Station under Work Order: B20206

Certified Inspector: 
CRS Number: N3DR341N

Date: 16 FEB 2017

