

Engine Log - N643JM

PLATINUM



CONTINENTAL MOTORS

Status:  **NORMAL**

**Account Information**

Lab Customer ID#: 255242  
Company Name: [Swilk Aviation Maintenance, Inc.](#)  
Company Website: Fort Myers, FL  
207 DANLEY DRIVE, PAGE FIELD  
FORT MYERS, FL 33907  
Unit ID: [255242](#)  
Unit Mfg. Cms: SR22  
Unit Serial #: 917003  
Unit Website:

**Sample Information**

Lab No.: 202008060198  
Sample Tracking #: S20200310004710  
Sample Date: Jul 27, 2020  
Received Date: Aug 06, 2020  
Completed Date: Aug 10, 2020

**Component Information**

Component Description: **ENGINE**  
Cptd Mfg: Teledyne Continental  
Cptd Model: 7255N27  
Cptd Serial #: 917003  
Cptd Type: GASOLINE (ASPIRATED) ENGINE

**Other Sample Information**

PO No.:  
Work Order No.:  
Reference No.: 8782540  
Filter Age: 0  
Make Up Oil Amount: 0  
Fluid Manufacturer: PHILIPS 66  
Fluid Brand/Product: [http://www.bureauveritas.com/oil-analysis](#)

Maintenance Recommendations for Lab No.: 202008060198

Evaluated By: Charles Gay - Data Analyst

ANALYSIS INDICATES COMPONENT & LUBRICANT CONDITIONS ARE ACCEPTABLE. RESAMPLE at the next scheduled interval.

**SPECTROCHEMICAL ANALYSIS PPM**

**Wear Metals**

**Contaminants**

**Additives**

|          |    |   |    |    |      |   |   |      |    |    |   |    |
|----------|----|---|----|----|------|---|---|------|----|----|---|----|
| Iron     | 71 | 8 | 15 | 10 | 7317 | 5 | 1 | <0.1 | <1 | <1 | 3 | <1 |
| Chromium |    |   |    |    |      |   |   |      |    |    |   |    |
| Nickel   |    |   |    |    |      |   |   |      |    |    |   |    |
| Aluminum |    |   |    |    |      |   |   |      |    |    |   |    |
| Lead     |    |   |    |    |      |   |   |      |    |    |   |    |
| Copper   |    |   |    |    |      |   |   |      |    |    |   |    |
| Tin      |    |   |    |    |      |   |   |      |    |    |   |    |
| Silver   |    |   |    |    |      |   |   |      |    |    |   |    |
| Titanium |    |   |    |    |      |   |   |      |    |    |   |    |
| Vanadium |    |   |    |    |      |   |   |      |    |    |   |    |
| Silicon  |    |   |    |    |      |   |   |      |    |    |   |    |
| Sodium   |    |   |    |    |      |   |   |      |    |    |   |    |

**SAMPLE INFORMATION**

| LAB NO. | SAMPLE NO. | UNIT | FLUID | UOM | FILTER | LUBE |
|---------|------------|------|-------|-----|--------|------|
| 0198    | 07/27/20   | 1776 | 53    | HR  | Yes    | C    |

**FLUID PROPERTIES/CONTAMINANTS**

| Water | D7279 Vis |
|-------|-----------|
| <0.1  | 100 °C    |
|       | 18.4      |

*Oil changes*

|          |          |
|----------|----------|
| 2020 Hrs | 7/11/24  |
| 2053 Hrs | 10/25/24 |
| 2095 Hrs | 2/14/25  |
| 2130 Hrs | 4/2/25   |
| 2170 Hrs | 7/1/25   |

KEY: UoM - Unit of Measure Y - Yes N - No C - Changed S - Sampled > - Greater Than < - Less Than N/R - Not Reported (M) - Modified Method

Testing performed by Bureau Veritas is an ISO/IEC 17025:2017 accredited laboratory by ANAB. Certificate and scope of accredited methods can be found at [http://www.bureauveritas.com/oil-analysis](#). Not in scope of accreditation. For further details on outsourced testing, contact the laboratory directly. This test is run based on a trigger test. In this case, < values indicate that the trigger test was either not positive or the result was below the reportable limit. For a list of trigger tests refer to [http://www.bureauveritas.com/oil-analysis](#). No guarantee expressed or implied. This analysis is intended as an aid in predicting mechanical wear. Test results, maintenance recommendations and accuracy are affected by customer provided samples, equipment identification, maintenance history and apply only to this sample as provided. No guarantee expressed or implied is made against failure of this piece of equipment or all its components is the responsibility of the equipment owner.

ENGINE MODEL 20550N27B

SERIAL NUMBER 917003

PRESERVATION DATE 9-28-03

PRESERVATION EXPIRES 3-28-04

REPRESENTATIVE FACILITY AFTER EXPIRATION



14057-002

DATE PO #: 37329 RR #: 211089  
QTY: 1 Date: 10/06/03

NEW

# Aircraft Engine Test Verification

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

Engine Model

IO550N27B

Engine Serial Number

917003

Testing Completed

Standard Acceptance Test:

Date of Completion 9-27-03 Test Operator

29769



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



**Cirrus Design Corporation**  
**4515 Taylor Circle**  
**Duluth, MN 55811**

Phone: **218-727-2737**  
 Fax: **218-727-2148**  
**www.cirrusaircraft.com**

## PACKING SLIP

|                                            |              |              |           |
|--------------------------------------------|--------------|--------------|-----------|
| PACK SLIP NO.                              | 165010*1     | DATE SHIPPED | 04/12/16  |
| SALES ORDER NO.                            | 165010       | DATE ORDERED | 04/12/16  |
| CUSTOMER PURCHASE ORDER NO.<br>PIA-16-4074 |              |              |           |
| SHIP VIA                                   | FedEx Ground | INCOTERMS    | FCTRY-PPD |

|                |                                                                                            |                |                                                                                          |
|----------------|--------------------------------------------------------------------------------------------|----------------|------------------------------------------------------------------------------------------|
| <b>Sold To</b> | 01*16531<br>Byerly Aviation<br>6100 EM Dirksen Parkway<br>Peoria IL 61607<br>United States | <b>Ship To</b> | 16531<br>Byerly Aviation<br>6100 EM Dirksen Parkway<br>Peoria, IL 61607<br>United States |
|----------------|--------------------------------------------------------------------------------------------|----------------|------------------------------------------------------------------------------------------|

| Item | Product and Description                         | UOM | QTY<br>Ordered | QTY<br>Shipped | QTY<br>B.O. | Serial Numbers |
|------|-------------------------------------------------|-----|----------------|----------------|-------------|----------------|
| 0001 | 14554-001<br>EGT SENSOR, MODIFIED               | EA  | 2              | 2              |             | Inst 1/ed      |
| 0002 | 16579-002<br>SENSOR, EGT, LARGE CLAMP           | EA  | 2              | 2              |             | 5-2-16         |
| 0003 | 12983-001<br>SHOCK CORD, INTERCONNECT<br>RUDDER | EA  | 2              | 2              |             |                |

Tracking Number: 9612019038742970316394

A pre-approved RMA number must accompany all returned and core items. Contact [partreturns@cirrusaircraft.com](mailto:partreturns@cirrusaircraft.com) with any questions or inquiries.

Items that are not defective or damaged in any way may be returned to Cirrus Aircraft for credit within 60 days of date of invoice. Items may be subject to a restocking fee of 15% or \$50 per item, whichever is greater, with a maximum of \$500.

Orders received damaged, with quantity discrepancies or any other order inconsistency, must be reported to Cirrus Aircraft within 24 hours of receipt of shipment. Damaged shipments require picture submission and description of damage to package and contents to [parts@cirrusaircraft.com](mailto:parts@cirrusaircraft.com). Cirrus Aircraft reserves the right to deny return requests if any of the above conditions are not met.

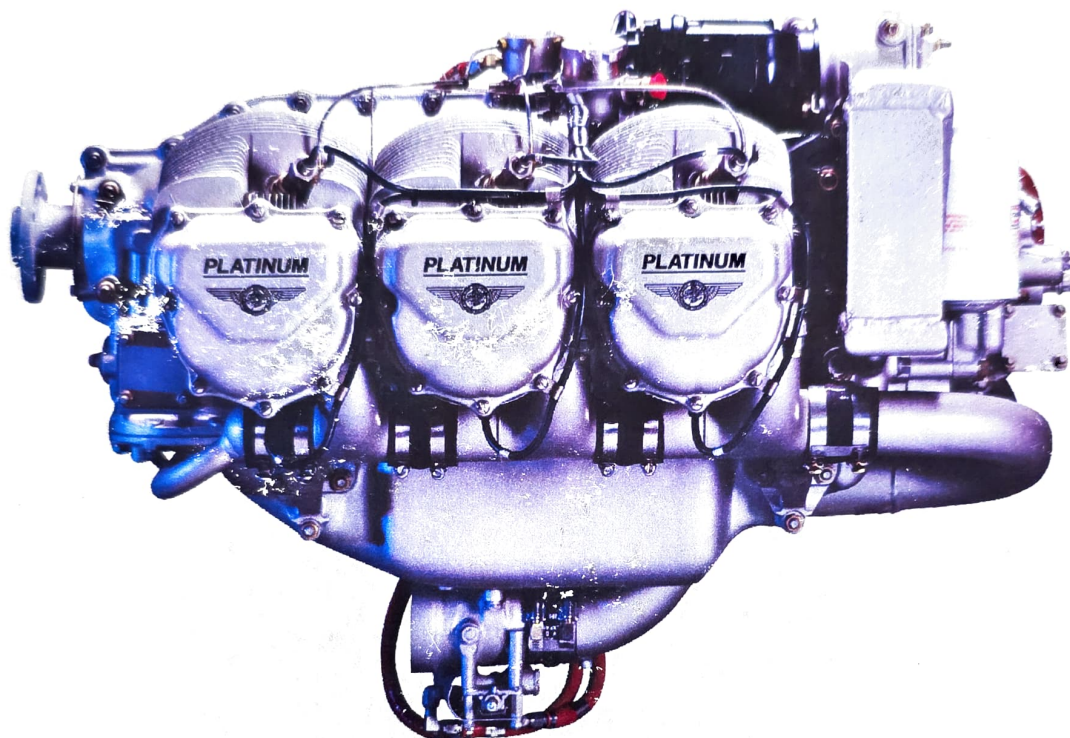
Cirrus Aircraft certifies that the items shipped on this order are in compliance with all engineering drawings and specifications and meet all quality control specifications.

All items listed above are considered airworthy, meet the requirements of U.S. Type Certificate A00009CH and were manufactured under U.S. Production Certificate PC338CE. Cirrus Aircraft holds U.S. Federal Explosives License 3-MN-137-21-7L-00527.

Items are eligible for installation on Cirrus model SR20, SR22 and SR22T.

\*\*\*EFFECTIVITY TO BE DETERMINED BY INSTALLER\*\*\*

# 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: 09/28/2003

This engine model 10550N27, Serial No. 917003 was manufactured on 09/27/2003  
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.

*Thomas H. Howard*

**TELEDYNE CONTINENTAL MOTORS**

A TELEDYNE TECHNOLOGIES COMPANY

PRODUCTION CERTIFICATE NO. 508

Date

Total Time

Time Since  
Last Overhaul

Hrs.

Min.

Hrs.

Min.

**Engine Service and Maintenance Record**Installations, Inspections, Airworthiness Directives, Special Inspections,  
Modifications and Service BulletinsENGINE MODEL  
ENGINE S/N  
REG. NO. 643JM  
WORK ORDER 1172-04-2004**Cirrus Design Factory Service Center**4515 Taylor Circle  
Duluth, MN 55811DATE: 5/8/2004  
TTA  
TTE  
HOBBS 100.7

Repair Station No. YD5R855Y

**Engine Entries**

Removed 60 amp alternator TCM P/N 646843, S/N 0031A095 and replaced with 100 amp alternator TCM P/N 649304, S/N 004BA055 to facilitate air conditioning installation. TCM Kieth Products DWG # 220-0700 &amp; TCM Service Instructions X30531-3.

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: 5/8/2004

SIGNED:

Steve Goessling

Certified Repair Station No. YD5R855Y

WORK ORDER: 1172-04-2004

Printed by EBIS (http://www.datamedia.com)

N643JM, MAKE: CIRRUS, MODEL: SR22, S/N: 0756.

HM: 25.3, WO .4009

CHANGED ENGINE OIL, INSPWCTED OIL FILTER CARTRIDGE. SERVICED ENGINE WITH PHILLIPS X/C 20W/50

THE AIRCRAFT, AIRFRAME, AIRCRAFT ENGINE, PROPELLER OR APPLIANCE IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH 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

TRI-STATE AERO, INC. CRS AHTR102C 6101 FLIGHTLINE DRIVE EVANSVILLE, IN

DATED

1/9/04

12/16/04

Previous Engine Log entries and  
oil change entries are inserted in  
The Aircraft Airframe Log book.  
JSB

N: 643JM

Make: TCM

Model: IO550N27B

S/N: 917003

RM: 170.4

ACTT: 170.4

Eng TT: 0.0

ENG SOH: N/A

COMPLETED ANNUAL INSPECTION. COMPRESSION CHECK #1 72/80, #2 72/80, #3 72/80, #4 71/80, #5 72/80 #6 73/80. CHANGED ENGINE OIL AND OIL FILTER, INSPECTED OIL FILTER CARTRIDGE, SERVICED WITH PHILLIPS X/C OIL. TOOK ENGINE OIL SAMPLE, AND SENT FOR ANALYSIS.

THE AIRCRAFT, AIRFRAME, AIRCRAFT ENGINE, PROPELLER OR APPLIANCE IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH 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.

W/O: 4801

Signed:

Tri-State Aero, Inc.

CRS AHTR102C

6101 Flightline Dr.

Date: 12/16/04

Evansville, IN 47725

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

**N:** 643JM      **Make:** TCM      **Model:** IO550N27B      **S/N:** 917003  
**RM:** 253.7      **ACTT:** 253.7      **Eng TT:** 253.7      **ENG SOH:** 0.0  
 COMPLETED ANNUAL INSPECTION, CIRRUS SR22.\* COMPRESSION CHECK #1 69/80, #2 70/80, #3 70/80, #4 70/80, #5 71/80, #6 70/80.\* CHANGED ENGINE OIL AND OIL FILTER, INSPECTED OIL FILTER CARTRIDGE, SERVICED WITH PHILLIPS XC20W50 OIL.\* TOOK ENGINE OIL SAMPLE, AND SENT FOR ANALYSIS. ADJUSTED IGNITION TIMING, RIGHT MAGNETO.\* REPLACED ENGINE OIL DIPSTICK.\*

THE AIRCRAFT, AIRFRAME, AIRCRAFT ENGINE, PROPELLER OR APPLIANCE IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH 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.

**W/O:** 5636/5637      **Signed:** *Andy W. Hudnall*      **Date:** 12/16/05  
 Tri-State Aero, Inc.      CRS AHTR102C      6101 Flightline Dr.      Evansville, IN 47725

**N:** 643JM      **Make:** TCM      **Model:** IO550N27B      **S/N:** 917003  
**RM:** 300.2      **ACTT:** 300.2      **Eng TT:** 300.2      **ENG SOH:** 0.0  
 CHANGED ENGINE OIL AND OIL FILTER, INSPECTED OIL FILTER CARTRIDGE. SERVICED WITH PHILLIPS X/C OIL.\* TOOK ENGINE OIL SAMPLE, AND SENT FOR ANALYSIS.\*

THE AIRCRAFT, AIRFRAME, AIRCRAFT ENGINE, PROPELLER OR APPLIANCE IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH 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.

**W/O:** 06-0505      **Signed:** *Andy W. Hudnall*      **Date:** 7/26/06  
 Tri-State Aero, Inc.      CRS AHTR102C      6101 Flightline Dr.      Evansville, IN 47725

**N:** 643JM      **Make:** TCM      **Model:** IO550N27B      **S/N:** 917003  
**RM:** 342.9      **ACTT:** 342.9      **Eng TT:** 342.9      **ENG SOH:** 0.0  
 301) **DISC:** ANNUAL INSPECTION CIRRUS DESIGN SR 22.  
       **CORRECTIVE ACTION:** COMPLETED ANNUAL INSPECTION, TCM MODEL: IO550-N27B ENGINE.  
 302) **DISC:** COMPRESSION CHECK.  
       **CORRECTIVE ACTION:** #1 68/80, #2 68/80, #3 68/80, #4 70/80, #5 72/80, #6 72/80.  
 303) **DISC:** ENGINE OIL AND OIL FILTER CHANGE DUE.  
       **CORRECTIVE ACTION:** CHANGED ENGINE OIL AND OIL FILTER. INSPECTED OIL FILTER CARTRIDGE. SERVICED WITH 8qts PHILLIPS X/C OIL.  
 304) **DISC:** TAKE ENGINE OIL SAMPLE.  
       **CORRECTIVE ACTION:** TOOK ENGINE OIL SAMPLE AND SENT FOR ANALYSIS.

THE AIRCRAFT, AIRFRAME, AIRCRAFT ENGINE, PROPELLER OR APPLIANCE IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH 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.

**W/O:** 5H06-0763      **Signed:** *Jeremy S. Burt*      **Date:** 11/22/06  
 Tri-State Aero, Inc.      CRS AHTR102C      6101 Flightline Dr.      Evansville, IN 47725

Date

TOOK ENGINE OIL SAMPLE AND SENT FOR ANALYSIS.

Discrepancy:304

ENGINE OIL COOLER MOUNT FLANGE CRACKED ON LOWER LEFT SIDE.

Corrective Action:304

REMOVED ENGINE OIL COOLER PART NUMBER 654585 (10281A), SERIAL NUMBER IO3-2147-489, AND SENT TO R&E OIL COOLER SERVICES TO BE WELDED. RE-INSTALLED ENGINE OIL COOLER PART NUMBER 654585 (10281A), SERIAL NUMBER IO3-2147-489, FOLLOWING OVERHAUL BY R&E OIL COOLER SERVICES ON THEIR WORK ORDER NUMBER 3975, DATED NOV. 6, 2008. NO LEAKS NOTED DURING ENGINE GROUND RUN.

Discrepancy:305

BOTH LEFT AND RIGHT MAGNETOS DUE 500 HOUR SERVICE. RIGHT MAGNETO LEAKING OIL FROM CASE HALVES.

Corrective Action:305

REMOVED LEFT MAGNETO PART NUMBER 10-50056-1, SERIAL NUMBER DO31A192, FOR 500 HOUR SERVICE. REMOVED RIGHT MAGNETO PART NUMBER 10-50056-1, SERIAL NUMBER DO31A193, FOR 500 HOUR SERVICE. RE-INSTALLED LEFT MAGNETO PART NUMBER 10-50056-1, SERIAL NUMBER DO31A192, AND RIGHT MAGNETO PART NUMBER 10-50056-1, SERIAL NUMBER DO31A193, FOLLOWING 500 HOUR SERVICE AT QUALITY AIRCRAFT ACCESSORIES ON THEIR WORK ORDER NUMBER 71334, DATED 11/07/08. THEY ALSO COMPLIED WITH AD 2005-12-06 THE 500 HOUR IMPULSE COUPLING INSPECTION ON BOTH LEFT AND RIGHT MAGS, AND AD 94-01-03R2 COIL AND ROTOR ON BOTH LEFT AND RIGHT MAGS. OPERATIONAL CHECK GOOD, AND NO OIL LEAKS NOTED FOLLOWING ENGINE RUN UP.

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:

Tri-State Aero, Inc. CRSAHTR102C

Dated:

6191 Flightline Drive Evansville, Indiana 47725

812-426-1221

**December 1, 2009 N643JM S/N 0756 Engine/TT and Hobbs Time 468.2 \*\*\*\*\***

**Annual inspection completed this date. Changed oil and filter, cut filter open and found no metal. Serviced engine with 8qts. Phillips 20W-50 X/C. Washed engine and lubed controls. Cleaned, gapped and rotated spark plugs. Cleaned fuel screen. Installed new o-ring. Compression checks- #1 75/80 #2 72/80 #3 74/80 #4 73/80 #5 77/80 #6 74/80. Run-up and leak check good. AD's good thru 2009-20.---END----**

The maintenance operation(s) described above were inspected in accordance with current regulations and with respect to work performed, the aircraft and/or component was found airworthy and is approved for return to service. Details are on file under work order **5437**.

Paul W. Enlow

Repair Station MYNR748K



MONTGOMERY  
AVIATION, INC

11329 East State Road 32  
Zionsville, IN 46077  
317 - 769 - 4487

Certified Repair Station No. MYNR748K

December 17, 2010 N643JM S/N 0756 Hobbs and ENG/TT Time 504.9

Completed annual inspection this date. Changed oil and filter, cut filter open and found no metal. Serviced engine with 8qts. Phillips 20W-50 X/C. Washed engine and lubed controls. Cleaned fuel screen. Cleaned, gapped and rotated spark plugs. Installed new push rod seals in #2 cylinder. Installed new spark plug in #3 lower cylinder. Compression checks-- #172/80 #2 70/80 #3 66/80 #4 71/80 #5 70/80 #6 72/80. Run-up operational check and leak check good. AD's good thru 2010-23.

-----END-----

The maintenance operation(s) described above were inspected in accordance with current regulations and with respect to work performed, the aircraft and/or component was found airworthy and is approved for return to service. Details are on file under work order 5983.

*Paul W. Enlow*

Paul W. Enlow  
Repair Station MYNR748K



11329 East State Road 32  
Zionsville, IN 46077  
317-769-4487

Certified Repair Station No. MYNR748K

October 11, 2011 N643JM S/N 0756 Hobbs Time <sup>557.03</sup>532.5 TTE  
Engine Entry

Changed oil and filter, opened filter, OK, serviced with Phillips X/C 20W50. Installed new springs on hi tension leads at plugs

The maintenance operation(s) described above were inspected in accordance with current regulations and with respect to work performed, the aircraft and/or component was found airworthy and is approved for return to service.

Details are on file under work order 6420

*Ed Hobelman*

Ed Hobelman  
MYNR748K



11329 East State Road 32  
Zionsville, IN 46077  
317-769-4487

Certified Repair Station No. MYNR748K

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

November 23, 2011 N643JM S/N 917003 Hobbs Time 588.5 TTE  
 100hr/Annual Inspection Completed This Date. Inspected IAW Cirrus Inspection Report ATA 05-20 5/31/11 ELT Inspected IAW 14CFR 91.207d, OK, ELT battery dated 3/14. Installed new Air filter element. No oil change at this time. Compression test 1) 70/80 2) 70/80 3) 71/80 4) 68/80 5) 64/80 6) 70/80, master orifice 46/80. ADs checked thru BW 2011-22, no ADs due at this time.

See AD list for full details.

The maintenance operation(s) described above were inspected in accordance with current regulations and with respect to work performed, the aircraft and/or component was found airworthy and is approved for return to service.

Details are on file under work order 6514

*Ed Hobelman*  
 Ed Hobelman  
 MYNR748K



11329 East State Road 32  
 Zionsville, IN 46077  
 317-769-4487

Certified Repair Station No. MYNR748K

#### ENGINE

Reg: N643JM  
 Model: IO-550-N (27)  
 S/N: 917003  
 W/O: MS-12-01907



Date: 16 January 2013  
 Hobbs: 722.6  
 ACTT: 722.6  
 ETT: 722.6

#### Scheduled Inspections/Maintenance Checks:

- 1) Performed an **Annual Inspection** in reference to current Cirrus Airplane Maintenance Manual for the SR22, P/N 13773-001, Chapter 05-20 "Scheduled Inspection Report" and Chapter 05-30 "Operational Inspection Report".
- 2) Performed a differential compression test per TCM SB03-3: 1) 66/80, 2) 62/80, 3) 62/80, 4) 64/80, 5) 70/80, 6) 66/80. Master orifice: 40/80.
- 3) Drained the oil. Removed and replaced the oil filter with new (p/n CH48108-1). Inspected the removed oil filter, no contaminants noted. Serviced the engine with 7 qts of Aeroshell 15W-50 oil.

#### Maintenance Actions:

- 4) Adjusted the idle speed and mixture setting in reference to TCM SID97-3E.
- 5) Removed the #4 intake and the left magneto. Reinstalled the left magneto with new drive coupling bushings (p/n 655269) and a new gasket (p/n 649954). Externally timed the left magneto to the engine. Reinstalled the #4 intake with a new gasket (p/n 649950).
- 6) Performed an engine ground run per FAR 43.15(c)(2) in reference to Cirrus Model SR22 AMM 05-30, Operational Inspection Report. Operational checks were satisfactory, no leaks or defects noted.

The aircraft, airframe, engine, propeller, or appliance 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 are on file under the above work order.

Signed: *[Signature]*

CRS #M9TR576Y  
 525 Turbine Ave, Chesterfield, MO (636)532-6155



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

Make: Teledyne Continental  
Model: IO550N27B  
Serial No.: 917003



Date: 2/11/2016  
Hobbs Time: 1059.4

### CONTINENTAL MOTORS SERVICES

Continental Motors Services, 8600 County Road 32, Fairhope, AL 36532 251-990-5080 FAA Repair Station No. 9CER853B

The work performed as described below has been inspected in accordance with current regulations of the Federal Aviation Administration and found to be in airworthy condition with respect to the work performed.

**Work Performed:** Removed all 6 cylinders, repaired, and reinstalled using new rings, gaskets, and seals. Details of the repairs made to these cylinders are on file under Work Order AC-6832. Installed new 658077 #2 exhaust valve lifter. Drained oil and installed new AA48108-2 filter. Serviced engine with 8 quarts of Aeroshell 100 mineral oil. Cleaned fuel injection nozzles. Cleaned spark plugs. Replaced cylinder fuel drain seals. Installed Factory Rebuilt R-655921-6A1 fuel pump SN B16AA154R. Adjusted fuel injection system using data from CMI IO550 Permold Series Engine Maintenance and Overhaul Manual M-16. Completed ground operational and leak check and initial cylinder break-in. ---END---

Authorized Signature for Repair Station 9CER853B:   
Details of the work performed are on file under Work Order No. AC-6832



7 Airport Rd Savoy, IL 61874  
(217)351-7700 (800)747-4777

Certificated Repair Station #BONR551C Page 1

N643J TCM IO-550-NS# 917003 4-25-2016 TOTAL TIME: 1085.0

- COMPLIED WITH ENGINE ANNUAL INSPECTION I/A/W FAR 43 APPENDIX D SCOPE AND DETAIL CHECK LIST, WITH REFERENCE TO CIRRUS SR22 INSPECTION REPORT. CHANGED OIL WITH 8QTS PHILLIPS 20W50.
- INSTALLED NEW CH48108-1 OIL FILTER. INSPECTED OLD FILTER ELEMENT FOR METAL, FOUND OK. CLEANED FUEL SCREENS. CLEANED GAPPED AND TESTED SPARK PLUGS. AD 2014-05-29 N/A BY CYLINDERS INSTALLED. COMPRESSION TEST RESULTS AS FOLLOWS: #1 75/80, #2 75/80, #3 76/80, #4 75/80, #5 75/80, #6 74/80. WASHED DOWN ENGINE. GROUND RUN-UP AND LEAK CHECK GOOD.
- ADJUSTED ENGINE IDLE MIXTURE, CW .5 TURNS. GROUND RUN TEST GOOD.
- REMOVED AND REINSTALLED #6 CYLINDER EXHAUST STACK P/N 15074-001 AFTER REPAIR BY AEROSPACE WELDING CRS-UWDR792L WORK ORDER 169299.
- REMOVED AND REINSTALLED RIGHT MAGNETO S/N D03IA192 AND LEFT MAGNETO S/N D03IA193 AFTER 500HR INSPECTION BY AIRCRAFT SYSTEMS CRS-KC2R947K, W/O 51080. SET TIMING TO ENGINE TO 22 DEGREES BTDC #1 CYLINDER. GROUND RUN TEST GOOD.

THE ARTICLE IDENTIFIED ABOVE WAS REPAIRED AND/OR INSPECTED IN ACCORDANCE WITH THE CURRENT REGULATIONS OF THE FEDERAL AVIATION ADMINISTRATION, HAS BEEN DETERMINED TO BE IN AN AIRWORTHY CONDITION, AND IS APPROVED FOR RETURN TO SERVICE RELATIVE TO THE WORK PERFORMED. PERTINENT DETAILS OF THIS WORK SCOPE ARE ON FILE AT THIS REPAIR STATION UNDER THE WORK ORDER NUMBER GA-3307.

for THE FLIGHTSTAR CORPORATION, CRS# BONR551C

5-2-16 Hobbs 1086.0

R&R #1 cyl / EGT Prob.  
Run up ops check OK

I certify that this work has been inspected and is determined to be in airworthy condition with respect to the work performed. End.

Date: 5/2/16 Repair Station # BYR8106

Signature:

Performed the following maintenance items:

1. Replaced LH muffler with new, pn:A14836-001, per Cirrus SR22 AMM 78-20, and performed engine ground run and leak checked ok.
2. R&R #4 EGT probe with new pn:14554-001, per Cirrus SR22 AMM 77-20, operational tested ok.
3. Adjusted mixture per Cirrus SR22 AMM 73-20, performed ground run, parameters nominal.
4. Adjusted idle per Cirrus SR22 AMM 73-20, performed ground run, parameters nominal.

I certify that this work has been inspected and determined to be in airworthy condition and approved for return to service with respect to the work performed. Pertinent details are on file this repair station under invoice number SHO-17-3317.

Signature: [Signature] Ryan Grenhoff



Byerly Aviation, Inc. Greater Peoria Airport

Peoria, IL. 61607 Certificate # 9BYR810B

05-08-2017<>N643JM<>SN0756<>Engine Logbook<>EngSN:917003<>ETT:1273.6<>Tach:1273.6

Performed the following maintenance items:

1. Performed annual/100 hr. inspection per Cirrus Models SR22/22T AMM Scheduled Inspection Report 5-20, and TCM Maintenance & OH Manual M-16, change 2, dated July 2015.
2. Drained engine oil, and removed oil filter. Inspected oil filter for contamination, no defects noted. Installed 8 qts. Phillips XC 20W-50, and new oil filter pn:AA48109.
3. CW annual engine induction air filter replacement, pn:BA24.
4. CW TCM SB 06-1A, 100hr/annual fuel nozzles cleaning, inspection, and flow check. No defects noted.
5. CW TCM SID 97-3G 100hr/annual fuel system check/setup, no defects noted.
6. CW TCM SB 03-03 cylinder compression test/inspection, 1)70, 2)72, 3)70, 4)72, 5)70, 6)68, all over 80 psi. Master orifice reading 42 psi. No defects noted.
7. CW TCM SB 94-8D magneto to engine timing, no defects noted.
8. R&R 6 spark plugs with new, pn:URHB32E.
9. R&R alternator wiring grommet with new, at fwd baffling.
10. Reposition alternate air cable and install new clamp.
11. R&R #5 fuel injector clamp with new pn:652436-1.
12. Performed ground run up, all parameters nominal, no leaks noted.
13. All annual ICA'S for added equipment where checked, no defects noted.
14. AD's checked thru 2017-09, see AD list.

I certify that this engine has been inspected in accordance with an annual inspection and determined to be in an airworthy condition. Pertinent details are on file at this agency under invoice number: SHO-17-3360.

Date: 5-8-17 Signature: [Signature]

Byerly Aviation, Inc. Greater Peoria Airport, Peoria, IL. 61607  
FAA Approved Repair Station 9BYR810B

I certify that this work has been inspected and determined to be in airworthy condition and approved for return to service with respect to the work performed.

Date: 5-8-17 Signature: [Signature]

FAA Approved Repair Station 9BYR810B



# 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 |            |      |                          |      |

Date: August 16, 2017 N643JM M/N:SR22 S/N: 0756 Hobbs Time: 1,325.7

Inspected customer requested items. Performed visual inspection on engine and propeller. Performed Engine compression check. Results are as follows: 1) 72/80 2) 71/80 3) 69/80 4) 74/80 5) 76/80 6) 75/80 and master orifice 44/80. Re-secured oil cooler bolt under LT magneto as required. Performed AD and SB re-search. All AD's are up to date.

The maintenance operation(s) described above were inspected in accordance with current FAA regulations and with respect to work performed, the aircraft and/or component was found airworthy and is approved for return to service.

Details are on file at this agency under work order 17-9137.

*Randall J Ells Jr.*  
Randall J Ells Jr.  
1MYR828C

**Indiana's**  
**MONTGOMERY**  
Aviation, LLC.  
11329 East State Road 32  
Zionsville, IN 46077  
317-769-4487

Certified Repair Station No. 1MYR828C

Tail N643JM Date 11-17-17 Hours 1391.7

Drained oil And Replaced Filter

Added 7qts 20W50 XC and Cam Guard

installed quick Reins. Ground

run good. MMBL Mike Bohn 2862531 A&P

Switlik Aviation Maintenance Inc Fort Myers FL 239-936-3666

## Switlik Aviation Maintenance, Inc.

Page Field Airport (FMY)

207 Danley Drive

Fort Myers, Florida 33907

239-936-3666

www.switlikaviation.com



| Date       | Reg. number | Airframe s/n | Hobbs  |     |     |     |     |
|------------|-------------|--------------|--------|-----|-----|-----|-----|
| 03/22/2018 | N643JM      | SR22-0756    | 1428.7 | --- | --- | --- | --- |

Drained oil. Replaced oil filter. Serviced with Phillips 20W50 XC oil and Camguard additive. Run-up and leak checks were normal.

I certify that the above stated maintenance and/or inspection was performed in accordance with the current regulations of the Federal Aviation Administration and the aircraft identified above is presently approved for return to service.

*Joel C. Johnson* Joel C. Johnson 3587699 A&P

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

Brought Forward →

Sarasota Avionics Inc Tampa (TPA) **Engine**  
 845 Severn Ave. Tampa, FL 33606  
 Tail No.: N643JM Cont: IO550N27B Serial Number: 917003  
 Date: 6/18/18 Work Order: M573  
 Hobbs: 1476 AFFT: 1476 Engine TT: 1476



C/W Cirrus annual inspection checklist. Compression: 1=70 2=73 3=70 4=72 5=70 6=74.  
 Drain oil. Took sample. Install new CH48108-1 oil filter. Cut and inspect old filter and found no  
 contamination. Service engine with 8qts Phillips 20W50 and 1 camguard. Installed new  
 induction filter. Checked magneto timing. Lube all rod ends. Clean, gap and check all plugs.  
 Replace 3 bad plugs. Replaced adell clamp on de-ice line.  
 Performed ground op/leak check noting no discrepancies.

I certify all work done to the aircraft and/or component identified above was done in  
 accordance with an annual inspection and current regulations of the Federal Aviation  
 Administration and was found approved for return to service with respect to the work  
 performed.

*Wayne E. Childers Jackson*

Wayne E. Childers Jackson A&P3440160IA

Tail N643JM Date 09/28/18 Hours 1517.0  
CHANGED OIL & FILTER (CH48109-1)  
& PHILLIPS 20W-50 X/C OIL. ADDED 10oz  
CAMGUARD. TEST RUN & LEAK CHECKED.

*[Signature]*

Humberto Talavera 2777707 A&P

Switlik Aviation Maintenance Inc Fort Myers FL 239-936-3666



APG Aviation - Maintenance & Repair  
 28000 Airport Rd. A 17 Punta Gorda, FL 33982  
 Tel 941-575-8605 Fax 941-575-8734 ga@avionix.com

11-30-2018 N643JM CIRRUS SR22 SN 0756 HM 1571.2

CHANGED OIL AND FILTER. SERVICED WITH 8qts PHILLIPS XC 20W-50 AND  
 FILTER AA48109. CUT AND INSPECT FILTER. OPERATIONAL CHECK  
 SATISFACTORY. MAINTENANCE PERFORMED IAW CURRENT FAA REGULATIONS  
 AND IS APPROVED FOR RETURN TO SERVICE.

HARALD R WOLF  
 3401492 AP

*Harald R Wolf*

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



APG Aviation - Maintenance & Repair  
28000 Airport Rd. A-17 Punta Gorda, FL 33982  
Tel 941-575-8605 · Fax 941-575-8734 · aa@avionix.com

02-15-2019 N643JM CIRRUS SR22 SN 0756 HM 1599.3

CHANGED OIL AND FILTER. SERVICED WITH 8qts PHILLIPS XC20W-50 AND FILTER AA48109. CUT AND INSPECT FILTER. OPERATIONAL CHECK SATISFACTORY. MAINTENANCE PERFORMED IAW CURRENT FAA REGULATIONS AND IS APPROVED FOR RETURN TO SERVICE.

HARALD R WOLF  
3401492 AP

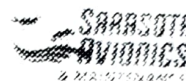
*Harald R Wolf*

**Sarasota Avionics Inc Tampa (TPA)**

845 Severn Ave. Tampa, FL 33606

Tail No.: N643JM/Cirrus/SR-22/Serial #: 0756

Date: 4/25/19 Work Order: M835



Aircraft Tach 1623.6

Performed engine fuel system setup per SID 97-3G and TCM IO-550 Maintenance and overhaul manual M-16. Run up, and all applicable leak and ops checks good.

*Steven D. Reifeis*

Steven D. Reifeis A&P 3505535

Sarasota Avionics Inc Tampa (TPA)  
845 Severn Ave. Tampa, FL 33606

**Engine**

Tail No.: N643JM Cont: IO550N27B Serial Number: 917003

Date: 07/16/19 Work Order: M886

Hobbs: 1641.0 AFFT: 1641.0 Engine TT: 1641.0



C/W Cirrus annual inspection checklist. Compression: 1=74 2=76 3=73 4=76 5=71 6=74. Drain oil. Took sample. Install new CH48108-1 oil filter. Cut and inspect old filter and found no contamination. Service engine with 8qts Phillips 20W50. Installed new induction filter. Checked magneto timing. Lube all rod ends. Clean, gap and check all plugs. Replaced adell clamp on de-ice line. Replace co-pilots heat exchanger. Repaired left rear baffling at crack. Performed ground op/leak check noting no discrepancies.

I certify this aircraft and/or component identified above was done in accordance with an annual inspection and current regulations of the Federal Aviation Administration and was found to be in an airworthy condition and is approved for return to service with respect to the work performed. All applicable AD's through 06/18/13 have been reviewed and/or complied with.

*Wayne E. Childers Jackson*

Wayne E. Childers Jackson A&P3440160IA

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

Brought Forward →



Sarasota Avionics Inc Tampa (TPA)  
845 Severn Ave. Tampa, FL 33606  
Tail No: N643JM/Cirrus/SR22 S/N: 0756  
Date: 10/16/19 Work Order #: M974

Hobbs: 1694.9

Performed oil & filter change. (8qts Phillips 20W-50 X/C oil, CH48109-1 filter.) Visually inspected filter for metal: none detected at this time. Performed engine run, ops & leak check good.

I certify this airframe has been inspected in accordance with manufacture check list as identified in the aircrafts instructions for continued airworthiness and was found to be in a condition for safe operation.

Ryan Schwarzman A&P 3782584

Tail N643JM Date 5/29/20 Hours 1723.0

CHANGED OIL AND FILTER. ADDED  
8QTS. OF PHILLIPS X/C 20W-50. GROUND  
RUN & CHECKED FOR LEAKS.

Albert Angolan 2857040 A&P

Switlik Aviation Maintenance Inc Fort Myers FL 239-936-3666

## Switlik Aviation Maintenance, Inc.

Page Field Airport (FMY)  
207 Danley Drive  
Fort Myers, Florida 33907  
239-936-3666

www.switlikaviation.com



| Date       | Reg. Number | Engine s/n | --- | --- | Hobbs  | --- | Eng. TT | --- |
|------------|-------------|------------|-----|-----|--------|-----|---------|-----|
| 08/12/2020 | N643JM      | 917003     | --- | --- | 1776.8 | --- | 1776.8  | --- |

Changed oil & filter. Took oil sample for analysis. Results came back normal. Added 8 qts Phillips 20W50 Mineral oil. Replaced No.3 & No.5 cylinders due to cracks at the injector nozzle & spark plug holes. Cylinder Assemblies installed are repaired/serviceable cylinders with 8130-3 forms from certified Engines Unlimited, Inc. **Complied with 500 Hr inspection on magnetos** installing new contacts in both. Checked mag timing & ignition harness. Replaced spark plugs Champion RHB32E. Inspected exhaust system. Compression on cylinders #1 72/80 #2 75/80 #3 76/80 #4 75/80 #5 75/80 #6 74/80. Cleaned injector nozzles. Checked AD compliance thru BW 2020-16. I certify that this Engine has been inspected in accordance with an Annual Inspection and was determined to be in an Airworthy Condition.

I certify that the above stated maintenance and/or inspection was performed in accordance with the current regulations of the Federal Aviation Administration and the aircraft identified above is presently approved for return to service.

Frank Kurtz IA 3509467

Certified Engines Unlimited, Inc.  
North Perry Airport, Pembroke Pines, FL USA  
F.A.A. CRS # KG4R309M

## Removed:

WO # \_\_\_\_\_  
Cyl # \_\_\_\_\_  
Date: \_\_\_\_\_  
Part # \_\_\_\_\_  
S/N # \_\_\_\_\_

## Installed:

WO # 54737  
Cyl # 72425-1  
Date: 7/30/20  
Part: 658021  
S/N # AC094B014

POS  
NEW

Model:

IO-550-N

W/D or N/D, SR or LR

for INSPECTION & REPAIR as NECESSARY  
as per customer request (IRAN)

## Reason for Removal:

Receiving Report

Cylinder Stud Assembly \_\_\_\_\_ Cylinder Valve Assy \_\_\_\_\_ Piston \_\_\_\_\_ Pin \_\_\_\_\_ Plugs \_\_\_\_\_  
Rocker Arm \_\_\_\_\_ Primer \_\_\_\_\_ Spark Plug \_\_\_\_\_ CHT Probe \_\_\_\_\_ Rocker Axle \_\_\_\_\_  
Injector Nozzle \_\_\_\_\_ Exh Cap \_\_\_\_\_ Int Cap \_\_\_\_\_ Thrust Washers \_\_\_\_\_  
Miscellaneous \_\_\_\_\_

Inspection Report

Gas Check Results: \_\_\_\_\_ Nickel \_\_\_\_\_  
Cyl Bore Size & Condition \_\_\_\_\_ Nit \_\_\_\_\_ Steel \_\_\_\_\_ Chrome \_\_\_\_\_ Cermet \_\_\_\_\_  
Taper/Choke \_\_\_\_\_ Out of Round \_\_\_\_\_ Int Guide ID \_\_\_\_\_ Exh Guide ID \_\_\_\_\_  
Piston Pin OD \_\_\_\_\_ Piston Pin Plugs \_\_\_\_\_ p/n \_\_\_\_\_  
Exh Port..... Helicoil \_\_\_\_\_ Cracked \_\_\_\_\_ Build Up \_\_\_\_\_ Reface \_\_\_\_\_ OK \_\_\_\_\_  
Exh Studs..... Replace \_\_\_\_\_ OK \_\_\_\_\_  
Int Port..... Helicoil \_\_\_\_\_ Cracked \_\_\_\_\_ Build Up \_\_\_\_\_ Reface \_\_\_\_\_ OK \_\_\_\_\_  
Rocker Cover Area..... Resurface \_\_\_\_\_ Helicoil \_\_\_\_\_ Weld \_\_\_\_\_ OK \_\_\_\_\_  
Spark Plug Boss..... Helicoil \_\_\_\_\_ Cracked \_\_\_\_\_ Radius \_\_\_\_\_ OK \_\_\_\_\_  
Barrel Fins..... Bent \_\_\_\_\_ Cracked \_\_\_\_\_ Corroded \_\_\_\_\_ OK \_\_\_\_\_  
Head Fins..... Bent \_\_\_\_\_ Cracked \_\_\_\_\_ Corroded \_\_\_\_\_ OK \_\_\_\_\_  
Piston..... Ring Lands..... Rej \_\_\_\_\_ Pin Boss Damage \_\_\_\_\_ Other \_\_\_\_\_ OK \_\_\_\_\_  
Exh Valve \_\_\_\_\_ Exh Rotocoil \_\_\_\_\_ Int Valve \_\_\_\_\_ Int Rotocoil \_\_\_\_\_  
Push Rod Hsngs..... Bent \_\_\_\_\_ Corroded \_\_\_\_\_ Loose \_\_\_\_\_ OK \_\_\_\_\_ Gas Ck Results \_\_\_\_\_  
Outer Springs..... Broken \_\_\_\_\_ Wear \_\_\_\_\_ Under Tension Limits \_\_\_\_\_ OK \_\_\_\_\_  
Inner Springs..... Broken \_\_\_\_\_ Wear \_\_\_\_\_ Under Tension Limits \_\_\_\_\_ OK \_\_\_\_\_  
Rocker Arms... Resurface \_\_\_\_\_ Rebush \_\_\_\_\_ OK \_\_\_\_\_ Rocker Axles... Scored \_\_\_\_\_ OK \_\_\_\_\_  
Rocker Boss..... Alignment \_\_\_\_\_ Damage \_\_\_\_\_ Rebush \_\_\_\_\_ OK \_\_\_\_\_  
Cylinder Flange.... Damage \_\_\_\_\_ Bent \_\_\_\_\_ OK \_\_\_\_\_

Remarks

Authority/Country:

FAA/United States

# AUTHORIZED RELEASE CERTIFICATE

FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG

3. Form Tracking Number:

71071

4. Organization Name and Address:

CERTIFIED ENGINES UNLIMITED, INC 1630 SW 75th Ave Pembroke Pines, FL USA 33023

5. Work Order/Contract/Invoice Number:

54737-000

6. Item:

7. Description:

1 CYLINDER ASSY

8. Part Number:

658538 10-550 N

9. Quantity:

1

10. Serial Number:

72424-1/AC15AA27

11. Status/Work:

REPAIRED/SERVICEABLE

12. Remarks:

INSPECTED & REPAIRED AS NECESSARY W/STD STEEL BARREL---ALL MANDATORY SB'S & AD'S COMPLIED WITH OR N/A.

13a. Certifies the items identified above were manufactured in conformity to:

☐ Approved design data and are in a condition for safe operation.

☐ Non-approved design data specified in Block 12.

14a. ☒ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 12

Certifies that unless otherwise specified in Block 12, the work identified in Block 11 and described in Block 12 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.

13b. Authorized Signature:

13c. Approval/Authorization No.:

14b. Authorized Signature:

14c. Approval/Certificate No.:

KG4R309M

13d. Name (Typed or Printed):

13e. Date (dd/mm/yyyy):

14d. Name (Typed or Printed):

14e. Date (dd/mm/yyyy):

BARRY RACKARD

30 JULY 2020

## User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article.

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 aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1.

Statements in Blocks 13a and 14a 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.

NSN: 0052-00-012-9005

| Time Since Last Overhaul |      | Engine Service and Maintenance Record                                                                          |
|--------------------------|------|----------------------------------------------------------------------------------------------------------------|
| Hrs.                     | Min. |                                                                                                                |
|                          |      | Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins |

**PUNTA GORDA (PGD)**  
Charlotte County Airport  
27220 Airport Rd, Bldg. 211  
Punta Gorda, FL 33982



Date: 12/04/2020 N643JM S/N0756 Hobbs: 1805.3

1. Engine EGT and CHT indication erratic during multiple flights. Cleaned and applied Stabilant 22 to SIU. Indications are steady during run up.
  2. #6 EGT and CHT indicating higher than normal during run up. Cleaned #6 fuel injector.
- #6 EGT temp improved and #6 CHT appears to be in normal ranges

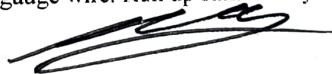
Aron Gober A#P3349462 

**PUNTA GORDA (PGD)**  
Charlotte County Airport  
27220 Airport Rd, Bldg. 211  
Punta Gorda, FL 33982



Date: 12/16/2020 N643JM S/N0756 Hobbs: 1805.6

Engine gauges indicating red line after run up, possible erroneous readings. Replaced section of ground leads with a larger gauge wire. Run up satisfactory.

Aron Gober A#P3349462 

Tail N643JM Date 05/12/2021 Hours 1818.3  
CHANGED OIL & FILTER, SERVICED w/ 8 Oils  
PHILIPS 20W-50 X/C. Test Run & LEAK  
CHECKED w/ SATISFACTORY RESULTS.

Humberto Talavera 2777707 A&P

Switlik Aviation Maintenance Inc Fort Myers FL 239-936-3666

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

Brought Forward →



APG Aviation - Maintenance & Repair  
 28000 Airport Rd. A-17 Punta Gorda, FL 33982  
 Tel: 941-575-8605 · Fax: 941-575-8734 · ga@avionix.com

SERVICE CENTER

10-04-2021 N643JM CIRRUS SR22 ASN 0756 HM 1827.0 TTAF 1827.0

CW THE 100hr INSPECTION IAW CIRRUS SR22 INSPECTION CHECKLIST CH 05-20. COMPRESSIONS OVER 80: 1)66 2)76 3)76 4)66 5)78 6)73. M.O 45/80. CHANGED OIL AND FILTER. SERVICED WITH 8qts PHILLIPS XC 20W-50 AND FILTER AA48109. CUT AND INSPECT FILTER. BLACKSTONE SAMPLE TAKEN. COMPLETED BORESCOPE INSPECTION. SERVICE FUEL INJECTORS. REPLACE FUEL INJECTOR LINE CLIPS 652436-1. CLEAN, GAP, AND ROTATE SPARK PLUGS. REPLACE INDUCTION AIR FILTER BA24 AND FILTER HOUSING END CAP 111-7. SERVICE GASCOLATOR. REPLACE GASCOLATOR DRAIN 39497-001. SET MAGNETO TO ENGINE TIMING TO MFG SPECS. CORRECT ROUTING AND REPLACE IGNITION HARNESS CLAMPS. REPLACE INDUCTION DUCT ASSY 15710-002 AND BUSHINGS 50200-101. REPLACE ALTERNATE AIR SCAT HOSE. REPAIR RIGHT SIDE BAFFLE SUPPORT AND TKS SUPPORT. REPAIR LEFT REAR BAFFLE USING DOUBLER. FABRICATE AND INSTALL AFT BAFFLE TO ENGINE CASE ATTACH BRACKET. REMOVE AND INSTALL ELECTRIC BOOST PUMP 5217-0017 SN 1196 AFTER OVERHAUL BY CJ AVIATION UNDER WO 32469. SEE FAA FORM 8130-3 DATED 09-17-2021. REPLACE LEFT SLIP JOINT SPRING AND HARDWARE. REPLACE RIGHT BALL JOINT HARDWARE. CW FUEL SET UP IAW M-O AND SID97-3G.

AD2020-16-11 CROSS-FLOW CYLINDER ASSY INSPECTION NA BY INSTALLATION. OPERATIONAL CHECK SATISFACTORY.

THIS ENGINE HAS BEEN INSPECTED IAW AN ANNUAL INSPECTION AS PER CIRRUS SR22 AMM CH 05-20 AND WAS FOUND TO BE IN AN AIRWORTHY CONDITION. MAINTENANCE PERFORMED IAW CURRENT FAA REGULATIONS AND IS APPROVED FOR RETURN TO SERVICE WITH RESPECT TO THE WORK PERFORMED. ADS THROUGH BI-WEEKLY 2021-18.

LANCE MILKO  
 2988662 IA

*[Signature]*

TTE 1827.0 HM



APG Aviation - Maintenance & Repair  
 28000 Airport Rd. A-17 Punta Gorda, FL 33982  
 Tel: 941-575-8605 · Fax: 941-575-8734 · ga@avionix.com

SERVICE CENTER

09-23-2022 N643JM CIRRUS SR22 ASN 0756 HM 1882.5 TTAF 1882.5

CW THE 100hr INSPECTION IAW CIRRUS SR22 INSPECTION CHECKLIST CH 05-20. CW BORESCOPE INSPECTION. COMPRESSIONS OVER 80: 1)63 2)68 3)66 4)68 5)59 6)55. M.O 44/80. REMOVE AND INSTALL #5 CYLINDER AFTER REPAIR BY ZEPHYR AIRCRAFT ENGINES UNDER WO 222187. INSTALLED CYLINDER USING NEW SEALS AND GASKETS IAW CAT M-O AND CAT M-16. CHANGED OIL AND FILTER. SERVICED WITH 8qts PHILLIPS XC 20W-50 AND FILTER CH48109. CUT AND INSPECT FILTER. INSTALL AND SAFETY NEW FILTER. BLACKSTONE SAMPLE TAKEN. SERVICE FUEL INJECTORS. SERVICE GASCOLATOR. CLEAN, GAP, AND ROTATE SPARK PLUGS. INSPECT MAGNETO TO ENGINE TIMING. REPLACE AIR FILTER BA24 AND FILTER HOUSING SUPPORT BRACKET 15672-001. REPAIR LEFT INNER TOP COWLING. REPLACE COWL SEAL 53722-063U AS NEEDED. REPLACE DE-ICE LINE CLAMPS RIGHT SIDE BAFFLE. SECURE PROPELLER GOVERNOR ROD END HARDWARE. REPAIR RIGHT FRONT BAFFLE. REPLACED #1, #3, #5 EGT PROBES 3ea 14554-001. REPLACE RIGHT SLIP JOINT BOLT NAS6704D52. PERFORMED CYLINDER RUN IN PROCEDURES IAW CAT M-O CH 7-2.3. FOUND ALT #1 INOP. REPLACED FUSE 51136-100 IN MCU. AD2022-04-04 STC STRATUS OFA NA BY ENGINE MODEL. OPERATIONAL AND LEAK CHECK SATISFACTORY.

THIS ENGINE HAS BEEN INSPECTED IAW AN ANNUAL INSPECTION AS PER CIRRUS SR22 AMM CH 05-20 AND HAS BEEN FOUND TO BE IN AN AIRWORTHY CONDITION. MAINTENANCE CARRIED OUT IAW CURRENT FAA REGULATIONS AND IS APPROVED FOR RETURN TO SERVICE WITH RESPECT TO THE WORK PERFORMED. ADS THROUGH BI-WEEKLY 2022-18.

LANCE MILKO  
 2988662 IA

*[Signature]*

TTE 1882.5 HM

# 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 | →          |      |                          |      |
| 6-2-23          | 1898       | 4    |                          |      |
| 6-5-2023        | 1898       | 6    |                          |      |

changed Oil & Filter. Added 8 qts phillips 20W50 X/C and AA48109 filter. Engine Run Up - Satisfactory.  
 Joel C Johnson A/P 3587699

checked Cylinder Compressions with .060 compression Gage. #1  $\frac{26}{30}$  #2  $\frac{26}{30}$  #3  $\frac{26}{30}$  #4  $\frac{26}{30}$  #5  $\frac{28}{30}$  #6  $\frac{26}{30}$ . Engine Run Up Satisfactory. Joel C Johnson A/P 3587699

## Switlik Aviation Maintenance, Inc.

Page Field Airport (FMY)  
 207 Danley Drive  
 Fort Myers, Florida 33907  
 239-936-3666

www.switlikaviation.com



| Date       | Reg.   | --- | --- | Hobbs  | Tach | --- | T.T |
|------------|--------|-----|-----|--------|------|-----|-----|
| 06/05/2023 | N643JM | --- | --- | 1898.4 |      |     |     |

Checked all Compressions with 0.060 Compression Gage. Borescoped Cylinders, all checked Good.

The above work was completed IAW current regulations of the Federal Aviation Administration and is approved for return to service for the work accomplished.

Joel C Johnson A/P 3587699

DLK Aviation, 2601 Cirrus Way NW, Kennesaw GA 30144

Date: 10-24-2023 Logbook: Engine 1 Tail Number: N643JM

Hobbs: 1935.5 Time Since New: 1935.5 Model: IO-550 SERIES Serial: 917003

- COMPLIED WITH PRELIMINARY INSPECTION IN ACCORDANCE WITH 14 CFR 145.211 (C)(II). ALL FINDINGS WERE RECORDED ON THIS WORK ORDER.
- COMPLETED INCOMING OPERATIONAL/FUNCTIONAL CHECK IAW CIRRUS SR22 MM 05-30.
- PERFORMED ANNUAL INSPECTION OF THIS ENGINE IN ACCORDANCE WITH CIRRUS AIRCRAFT SR22 AMM 5-20 INSPECTION CHECKLIST. SEE AIRCRAFT LOG FOR AD'S COMPLIED WITH DURING THIS ANNUAL. DRAINED OIL. COLLECTED ENGINE OIL SAMPLE. REMOVED OIL FILTER, CUT OPEN, AND INSPECTED FOR CONTAMINANTS. NONE NOTED. INSTALLED NEW OIL FILTER P/N AA48108. SERVICED ENGINE WITH 7 QTS OF PHILLIPS 20W50XC OIL. PERFORMED CYLINDER DIFFERENTIAL COMPRESSION TEST IAW TCM MANUAL M-18. COMPRESSION RESULTS AS FOLLOWS: 1) 50/80, 2) 72/80, 3) 72/80, 4) 70/80, 5) 80/80, 6) 58/80. M/O= 42/80. TIMED MAGNETOS. INSPECTED ENGINE AND EXHAUST.
- INSTALLED NEW PUSH ROD TUBE SEALS, GASKET, AND O-RINGS FOR #3 CYLINDER IAW CONTINENTAL IO-550-N SM CHAPTER 2-2.
- PERFORMED FINAL CHECKS AND INSPECTIONS.
- PERFORMED AN AIRPLANE RUN-UP IN ACCORDANCE WITH OPERATIONAL/FUNCTIONAL CHECK IN CIRRUS SR22 MM 5-30.

THIS AIRCRAFT, AIRFRAME, AIRCRAFT ENGINE, OR APPLIANCE IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT REGULATION OF THE FEDERAL AVIATION ADMINISTRATION AND IS APPROVED TO RETURN TO SERVICE. PERTINENT DETAILS OF THE REPAIR ARE ON FILE AT THIS REPAIR STATION UNDER WO# 23506, DATED 10-24-2023.

Certificate: DK7R795J | Authorized RTS Technician: Kevin Southworth

Sign: | Date: 10-24-2023

|      |            |      |                          |      |                                                                                                                                  |
|------|------------|------|--------------------------|------|----------------------------------------------------------------------------------------------------------------------------------|
| Date | Total Time |      | Time Since Last Overhaul |      | <h1>Engine Service and Maintenance Record</h1> <p>Installations, Inspections, Airworthiness Directives, Special Inspections,</p> |
|      | Hrs.       | Min. | Hrs.                     | Min. |                                                                                                                                  |

Brought For: wo: PS24083



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Engine · page 1 of 1

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**N643JM** **March 26, 2024**  
Hobbs: 1983.3

1. Drained oil IAW Continental CSB 07-1A. No debris found in mesh screen basket. Collected oil sample and sent out for analysis. Removed and replaced oil filter with new, P/N: CH48109-1. Cut open old filter and inspected, no metal found. Serviced engine with 7 qts. Aeroshell 100. Performed run up, leak check. No leaks noted.
2. Inspected left side of engine for black streaking coming from exhaust area. Determined streaking to come from air/oil separator with its close proximity to the exhaust area. Opened air/oil separator, cleaned and inspected. Cleaned oil return lines. Replaced section of 5/8" upper breather hose. No other defects found.

With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with Plane Safe Aircraft Maintenance, Inc. under work order: PS24083.

Adam Kaul Airframe & Powerplant A&P3879286 *ADa Kaul*



- ☐ Madison, WI 608-268-5003 Dane County Regional Airport (MSN)
- ☒ Watertown, WI 920-261-4567 Watertown Municipal Airport (RYV)
- ☐ Juneau, WI 920-386-2402 Dodge County Airport (UNU)

Date: 10/25/2024; Aircraft: N643JM; Type: CIRRUS SR22; S/N: 0756; Hobbs: 2052.00; Total Time: 2052.00; Engine - Type: IO-550-N27, S/N: 917003, Time: 2052.00; Prop - Type: PHC-J3YF-1RF, S/N: FP2562B, Time: 2052.00

\*\*\*Engine\*\*\*

Completed an annual inspection in accordance with FAR 43, Appendix D (BP). Compression test performed in accordance with TCM Standard Practice Maintenance Manual M-0, compressions as follows: #1) 68/80, #2) 68/80, #3) 66/80, #4) 68/80, #5) 74/80, #6) 64/80. Master Orifice of the day 46/80. Performed borescope inspection per TCM Standard Practice Maintenance Manual M-0, no defects noted (BP). Changed oil and filter p/n AA48109-1, took sample, cut filter, no metal noted. Serviced engine with 8 qts 20W50 PHILLIPS X/C oil. Performed ground run, operational, and leak checks - no defects noted. All work performed in accordance with approved/current technical data. I certify that this engine has been inspected in accordance with an Annual inspection and was determined to be in airworthy condition.

Benjamin J. Pitterle  
A&P390747277 IA

*Benjamin J. Pitterle IA390747277*

3407-02-2025 (02-13-2025)

MAKE: Cirrus  
MODEL: SR22  
S/N: 756  
REG. NO: N643JM

REXAIR

**Rex Air Maintenance Center**  
304 Citation Point  
Naples, FL 34104

Page 1 / 1

W/O #: 3407-02-2025  
DATE: 02-13-2025  
A/C Tach: 2095.2  
ENG TT:  
TSMOH:

### Engine Entries

Performed 50hr oil change/inspection IAW Cirrus AMM 5-20 and Continental M-0 MM. Serviced oil w/ 8QTS of Aeroshell 15W-50. Oil filter removed, opened and inspected. Installed new oil filter AA48108-2.

All work and inspections have been performed IAW applicable Maintenance Manuals and FAR's, and is found to be in Airworthy condition at this time. Pertinent details of service are on file at this facility under Work Order No. 3407-02-2025, Dated 02-13-2025.

DATE: 02-13-2025

SIGNED:

*Franklin Alvarez*  
Franklin Alvarez  
A&P or IA Number: P4716294

WORK ORDER: 3407-02-2025

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262-547-1800

cord  
ctions,

Brought

**N643JM**

Hobbs: 2187.2

**Continental, IO-550-N, S/N: 917003**

TTSN: 2187.2

**October 15, 2025**

1. Completed Annual Inspection IAW FAR 43.13 Appendix D, using the Cirrus SR22 inspection checklist as a guide.
2. Checked compressions: #1: 67/80, #2: 64/80, #3: 61/80, #4: 65/80, #5: 75/80, #6: 72/80 (PSI). Master Orifice: 43psi.
3. No oil change at this time.
4. Checked magneto to engine timing.
5. Cleaned, inspected, and lubricated all engine controls.
6. Replaced all spark plugs with new, P/N: UHRB32E.
7. Adjusted left magneto from 27 degrees and right magneto from 28 degrees BTDC to 22 degrees BTDC.
8. Cleaned engine of all dirt and debris.
9. C/W AD 2023-09-09 N/A by spot welded v-band clamps not installed. No further action is required.
10. AD's current through 2025-21.

I certify that this Engine has been inspected IAW an Annual Inspection, is found to be in an airworthy condition and is approved for return to service. Details of work performed are on file with Plane Safe Aircraft Maintenance, Inc. under work order: PS25272.

William Polachek Airframe & Powerplant A&P2848502

*William Polachek*