

**Aircraft Record** General Information

Manufacturer Air Tractor Inc. Model AT-401  
 Serial 401-0767 Registration Number N4542W  
 Date of Manufacture June 27, 1990

**Engine(s) currently installed:**

Manufacturer Pratt & Whitney Model R-1340-3H1G Serial 42-9580  
 Manufacturer \_\_\_\_\_ Model \_\_\_\_\_ Serial \_\_\_\_\_

**Propeller(s) currently installed:**

Manufacturer Hamilton Standard Model 23D40  
 HUB Model \_\_\_\_\_ Serial \_\_\_\_\_ Serial \_\_\_\_\_  
 Blade Model \_\_\_\_\_ Serial \_\_\_\_\_ Serial \_\_\_\_\_  
 Blade Model \_\_\_\_\_ Serial \_\_\_\_\_ Serial \_\_\_\_\_

YEAR: <u>02</u> DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations <small>Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)</small>
				<p><u>ENGINE GIVEN MAJOR OVERTHAUL &amp; TEST RUNS.</u>  <u>AD 56-6-2 CLOS, ADs 96-15-82 + 99-11-82 N/A</u>  <u>Carburetor Failed by Aft Fuel Injection.</u>  <u>P&amp;W 42-14648</u></p> <p>Model <u>R1340-59</u> Part _____                      The ITEM or component identified above was repaired and inspected in accordance with current F.A.A. Regulations and was found airworthy for return to service. Repair details of the repair are on file at this agency and on file at _____.</p> <p>No. <u>751</u> Date <u>4-11-03</u>                      Signed _____ for  <small>(Name of authorized person)</small>                      Youkin Aviation, Inc.</p>

YEAR: DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
4-25-07	3400. SMOH	0		Installation AT-401-N#4542W Operation Check of engine, OK

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

**FROST FLYING MAINTENANCE, INC.**

Marianna, AR 72360

Phone: [REDACTED]

Date: 25 JUNE 2007

N#: 4542W

Hobbs: 4157.8

Model: R 1340-59

S/N#: 42-14048

SMOH: 757.8

**REMOVED ENGINE DUE TO FAILURE.**

Signature: [REDACTED]

CLAY EDGIN [REDACTED]


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

**FROST FLYING MAINTENANCE, INC.**

Marianna, AR 72360

Phone: [REDACTED]

Date: 28 JUNE 2007

N#: 4542W

Hobbs: 4157.8

Model: R1340

S/N#: 9943

TSMOH: 0.0

**INSTALLED THIS ENGINE ON AIRFRAME S/N 401-0767. SERVICED AND RIGGED ENGINE. GROUND RUN AND LEAK CHECKED, RUN SATISFACTORY AND NO LEAKS NOTED AT THIS TIME. ALL WORK PERFORMED IAW MANUFACTURES MAINTENANCE MANUAL.**

**I CERTIFY THAT THIS ENGINE IS IN AN AIRWORTHY CONDITION FOR WORK PERFORMED.**

Signature: [REDACTED]

CLAY EDGIN [REDACTED]


YEAI

Riddell Flying Service

Helena-West Helena, AR 72390

DATE

N4542W

Date: 4-15-08

Hobbs: 130.2

SMOH: 130.9

TTE: unkn.

Completed annual inspection this date: Compression test results are - 1=72, 2=74, 3=72, 4=70, 5=70, 6=75, 7=74, 8=72, 9=70. Serviced all spark plugs. Changed oil and filter - serviced with Aeroshell W120 oil. Checked lines, hoses, clamps, fittings, and controls. C/W AD99-11-02 by inspection. See AD list in aircraft records for details of compliance. Ground run up found normal. I CERTIFY THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 HOUR INSPECTION AND FOUND TO BE IN AN AIRWORTHY CONDITION.

Michael D. Schlesselman  
A&P IA

YEAR:	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations
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Date: MARCH 31, 2011  
Tach: 5856.05  
Eng. PRATT&WHITNEY  
Model: R1340-S3H1G  
PERFORMED COMPRESSION CHECK: #1. 73/80. #2. 76/80. #3. 76/80. #4. 75/80. #5. 80/80. #6. 78/80. #7. 76/80. #8. 74/80. #9. 75/80. DRAINED OIL SYSTEM. REMOVED OIL FILTER. REMOVED, CLEANED, AND REINSALLED OIL COLLER. INSTALLED NEW FUEL AND OIL LINES FIREWALL FWD. INSTALLED NEW AIR FILTERS. CHECKED VALVES FOR PROPER CLEARANCE. INSTALLED NEW VALVE COVER GASKETS. INSTALLED NEW OIL PICKUP TUBE FROM BOTTOM OF OIL SUMP TO OIL PUMP. REPAIRED CRACKS IN EXHAUST SYSTEM. CLEANED AND GAPPED PLUGS. INSTALLED NEW OIL FILTER. SERVICED ENGINE WITH 15GAL PHILLIPS XC25W60 OIL. INSPECTED PROP AND PROFILED. C/W AD 99-11-02, [CYLINDER HEAD CRACKING] BY VISUAL INSPECTION. NO CRACKS FOUND. SEE RECORDS IN LOGS. ENGINE GROUND RUN AND LEAK CHECKED. NO LEAKS FOUND. DUE TO AN INOP HOBBS, RE-FIGURED TIMES OFF OF TACH TO BEST ESTIMATE. ALL WORK PERFORMED IAW MANUFACTURES MAINTENANCE MANUAL AND AIR TRACTOR MAINTENANCE MANUAL. I CERTIFY THIS ENGINE/PROP HAS BEEN INSPECTED IAW A 100HR/ANNUAL INSPECTION AND DETERMINED TO BE IN AN AIRWORTHY CONDITION.  
DUANE D. SCHAAL A/P IA

YEAR:	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations
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Date: APRIL 10, 2012  
Tach: 6142.0  
Eng. PRATT&WHITNEY  
Model: R1340-S3H1G  
PERFORMED COMPRESSION CHECK. #1. 70/80. #2. 80/80. #3. 71/80. #4. 70/80. #5. 79/80. #6. 80/80. #7. 80/80. #8. 80/80. #9. 74/80. DRAINED OIL SYSTEM. REMOVED OIL FILTER. INSTALLED NEW OIL FILTER. SERVICED ENGINE WITH 11QTS X/C 20W50 OIL. INSTALLED NEW AIR FILTERS. INSTALLED 18 NEW PLUGS. LUBED LINKAGES AND CONTROLS. INSPECTED PROP AND PROFILED. C/W AD 99-11-02, [CYLINDER HEAD CRACKING] BY VISUAL INSPECTION. NO CRACKS FOUND. SEE RECORDS IN LOGS. ENGINE GROUND RUN AND LEAK CHECKED. NO LEAKS FOUND. ALL WORK PERFORMED IAW MANUFACTURES MAINTENANCE MANUAL AND AIR TRACTOR MAINTENANCE MANUAL. I CERTIFY THIS ENGINE/PROP HAS BEEN INSPECTED IAW A 100HR/ANNUAL INSPECTION AND DETERMINED TO BE IN AN AIRWORTHY CONDITION.  
DUANE D. SCHAAL A/P IA



YEAR 20 <u>13</u> DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
<u>12-15</u>	<u>6306.0</u>		<u>7737.0</u>	<u>Ran Comp All Cyl 780 RPM</u> <u>Checked Mag Timing C/W Regress</u> <u>Service Filters C/W 100 HR</u> <u>Trng. Found Good For Return to</u> <u>Service.</u>

N4542W

Butterfly Aviation, Inc. Goodland, KS

Date: 6/7/14 Tach: 6310.0 R&R carburetor with overhauled unit from Tulsa aircraft engines S/N: 5637959. Trouble shot rough running engine. Checked mag timing, test all ignition leads with high tension tester, inspected front plugs. R&R R/H mag with overhauled unit from Covington aircraft engines S/N: BB-24944. Ground run ops. check-ok.

YEAR 20 _____ DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
				<p>N4542W Butterfly Aviation, Inc. Goodland, KS Date: 07/14/2014 Tach: 6404.0. Comp/80: 1=76,2=76,3=78,4=78,5=80,6=79,8=79,9=79. DRAIN OIL &amp; REMOVE FILTER. FILTER INSPECTION-NO METAL FOUND. INSTALL NEW FILTER &amp; FILL W/ 9 1/2 GALS. PHILLIPS XC 25W60. CLEAN, GAP, TEST AND ROTATE SPARK PLUGS. REPLACE ONE PLUG W/SERVICABLE UNIT AND ONE W/ NEW REM40E. THREAD CHASE REAR PLUG HOLES. INSPECT &amp; CLEAN PLUG LEADS. RESECURE #1 REAR SPARK PLUG IGNITION LEAD. REPLACE TWO MISSING/BROKEN EXHAUST STUDS, #4&amp;#5 CYLINDERS. INSTALL NEW AIR FILTERS. INSPECT CYLINDERS FOR MISSING/LOSE PAL/CYLINDER BASE NUTS. C/W AD99-11-02 - CYLINDER HEAD CRACKING- INSPECT AS PER AD AND PW SB 1787- NO CRACKS OR DISCOLORATION FOUND THIS DATE. WELD CRACK IN MAIN EXHAUST COLLECTOR. WASH ENGINE. GROUND RUN. LEAK AND OPS CHECK - OK.</p>
				<p>N4542W Butterfly Aviation, Inc. Goodland, KS. Date: 07/24/2014 Tach: 6428.0. TROUBLESHOOT POSSIBLE LOSE OF POWER. DRAIN ENGINE OIL SUMPS &amp; CHECK FOR METAL-NONE FOUND. VISUALLY INSPECT ALL VALVE SPRINGS, WASHERS, KEEPERS, ROCKER ARMS AND SHAFTS. CHECK ALL VALVE CLEARANCES - ALL WITHIN .010-.018. ADJUST #5 EXHAUST &amp; #6 INTAKE &amp; EXHAUST VALVES TO .010-.015. ALL OTHERS AT .010-.015. CHECKED ALL ENGINE CONTROLS FOR TRAVEL. FOUND CARB HEAT VALVE OPEN. RESECURE CARB HEAT DOOR. C/W AD99-11-02 - CYLINDER HEAD CRACKING - INSPECT AS PER AD AND PW SB 1787- NO CRACKS OR DISCOLORATION FOUND THIS DATE. INSPECT EXHAUST SYSTEM-OK. INSPECT INDUCTION SYSTEM-OK. GROUND RUN- PERFORMS SATISFACTORY. FLIGHT TEST- PERFORMS SATISFACTORY. ENGINE RETURNED TO SERVICE.</p>