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WESTERN
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GOLD SEAL AIRCRAFT ENGINES

21 Creative Place
Montrose, CO 81401
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(800) 675-8929
(970) 249-0232
FAX: (970) 249-4155

Engine Make: Lycoming

Model: O-360-A4M

Serial Number: L-31073-36A

W/O No: W059348 Date: 24 FEB 2023

Warranty Number: B23052

Warranty Start Date: MAR 2023

Crankshaft Serial No: V13896

Cylinder Part Number: SL36006W-A20P

This engine and accessories listed below were overhauled to "Factory New Tolerances" per Overhaul Manual No: 60294-7-14 and Western Skyways, Inc. Repair Specification WSI-100 "Use and Application of Hylomar Sealant" dated 11/10/2010 on all Teledyne Continental Motor Engines and Lycoming Engines as applicable. See back section for Airworthiness Directives and Service Bulletin compliance. This engine was run in a test cell. Total Previous Time: 4820.2 Hrs.

This engine meets requirements of Lycoming SI 1009BE for 2000.0 Hour TBO

The accessories listed below were New or Overhauled and supplied with this engine:

Component	Part No	Serial No	Component	Part No	Serial No
L/H Mag	4371	22081061	Vac Pump	NA	NA
R/H Mag	4370	22080876	Wastegate	NA	NA
Fuel Pump	AF-15472	118K05	Alt/Gen	NA	NA
Inj/Carb	10-5193	MS11RD02	Pop Off	NA	NA
Man Valve	NA	NA	Controller	NA	NA
Starter	NA	NA	VAPC	NA	NA
Turbo	NA	NA	Fuel Limiter	NA	NA
Prop Gov	NA	NA	Tach Gen	NA	NA

MAINTENANCE RELEASE

The engine and accessories listed above were overhauled and inspected in accordance with current Federal Aviation Regulations and were found airworthy for return to service. Pertinent details of this repair are on file at this Repair Station on above work order.

Signature 
Repair Station No. WS9R575J

Form 200 Rev. 2

Cylinder S/N	Cylinder S/N
#1: 366W000010785	#5: NA
#2: 366W000010786	#6: NA
#3: 366W000010787	#7: NA
#4: 366W000010788	#8: NA

AD NOTES COMPLIANCE RECORD

Engine - Lycoming Engines - O-360-A4M	S/N L-31073-36A	Western Skyways Inc. CRS WS9R575J W/O W059348
Appliance - Magnetos - Slick	S/N: 22081061 S/N: 22080876	Model: 4371 Model: 4370
Appliance - Carburetors - MA-4	S/N: MS11RD02	P/N: 10-5193 Model: MA-4-5
Appliance - Cylinder assembly - Superior Air Parts	366W000010785 366W000010786 366W000010787 366W000010788	P/N: SL36006W-A20P

AD#	Applicable S.B. # & Subject	Date & Hours @ Comp.	Method of Compliance	One Time	Recurring	Next Comp. @ Hrs/Date	Authorized Signature & Number
59-10-07	Cylinder baffle clamps	24 FEB 2023 4820.2 ETT	Hooks and retainers provided.	X			Ryan Dickerson WS9R575J <i>RD</i>
63-22-03	Marvel Schebler carburetors	24 FEB 2023 4820.2 ETT	Verified one piece venturi installed.	X			Ryan Dickerson WS9R575J <i>RD</i>
64-16-05	Oil seal failure	24 FEB 2023 4820.2 ETT	Installed NEW Tempest fuel pump.	X			Ryan Dickerson WS9R575J <i>RD</i>
66-20-04	Oil filter adaptor gasket	24 FEB 2023 4820.2 ETT	N/A per engine serial number.	X			Ryan Dickerson WS9R575J <i>RD</i>
69-24-03	Marvel Schebler carburetors	24 FEB 2023 4820.2 ETT	Not applicable by carburetor part number.	X			Ryan Dickerson WS9R575J <i>RD</i>
72-06-05 R2	Marvel Schebler carburetors	24 FEB 2023 4820.2 ETT	New style levers installed.	X			Ryan Dickerson WS9R575J <i>RD</i>
73-23-01	Piston pin failures	24 FEB 2023 4820.2 ETT	Installed new piston pins, P/N: LW-14078.	X			Ryan Dickerson WS9R575J <i>RD</i>
75-08-09	Oil pump	24 FEB 2023 4820.2 ETT	Installed new oil pump impeller kit, P/N: 05K19423-S.	X			Ryan Dickerson WS9R575J <i>RD</i>
80-06-05	Slick magnetos	24 FEB 2023 4820.2 ETT	Not applicable by magneto model number.	X			Ryan Dickerson WS9R575J <i>RD</i>
81-16-05	Slick magnetos	24 FEB 2023 4820.2 ETT	Not applicable by magneto model number.	X			Ryan Dickerson WS9R575J <i>RD</i>
87-10-06 R1	Rocker arm assemblies	24 FEB 2023 4820.2 ETT	Installed rocker arms, P/N: LW-18790. Verified rockers arms marked with "B" as per SB 477A.	X			Ryan Dickerson WS9R575J <i>RD</i>
89-04-02	Facet carburetors	24 FEB 2023 4820.2 ETT	Not applicable by carburetor serial number.	X			Ryan Dickerson WS9R575J <i>RD</i>
90-04-06 R1	Prop governor oil line	24 FEB 2023 4820.2 ETT	Not applicable per engine configuration.	X			Ryan Dickerson WS9R575J <i>RD</i>
92-12-05	Piston pin failure	24 FEB 2023 4820.2 ETT	Installed new piston pins, P/N: LW-14078	X			Ryan Dickerson WS9R575J <i>RD</i>

AD#	Applicable S.B. # & Subject	Date & Hours @ Comp.	Method of Compliance	One Time	Recurring	Next Comp. @ Hrs/Date	Authorized Signature & Number
93-11-11	AC, Textron, Rajay fuel pumps	24 FEB 2023 4820.2 ETT	Installed NEW Tempest fuel pump, P/N: AF-15472.	X			Ryan Dickerson WS9R575J <i>RD</i>
95-07-01	Connecting rod bolts	24 FEB 2023 4820.2 ETT	Installed NEW connecting rod bolts, P/N: SL75061.	X			Ryan Dickerson WS9R575J <i>RD</i>
95-26-02	Low octane detonation	24 FEB 2023 4820.2 ETT	Engine Inspected during overhaul.	X			Ryan Dickerson WS9R575J <i>RD</i>
96-09-10	Oil Pumps	24 FEB 2023 4820.2 ETT	Installed new oil pump impeller kit, P/N: 05K19423-S.	X			Ryan Dickerson WS9R575J <i>RD</i>
97-15-11	Piston pin	24 FEB 2023 4820.2 ETT	Installed new piston pins, P/N: LW-14078.	X			Ryan Dickerson WS9R575J <i>RD</i>
98-17-11	Crankshafts	24 FEB 2023 4820.2 ETT	Crankshaft, S/N: V13896 visual, dimensional, and magnetic particle inspected.	X			Ryan Dickerson WS9R575J <i>RD</i>
2004-10-14	CORRECTION - Prevent loosening or failure of the crankshaft gear retaining bolt	24 FEB 2023 4820.2 ETT	Crankshaft, S/N: V13896 counter bored recess inspected per MSB 475. Installed new dowel, modified gear with new bolt, P/N: STD-2246 and new lockplate.	X	Prop strike or gear removal.		Ryan Dickerson WS9R575J <i>RD</i>
2005-19-11	Prevent failure of the crankshaft	24 FEB 2023 4820.2 ETT	Not applicable per crankshaft S/N: V13896	X			Ryan Dickerson WS9R575J <i>RD</i>
2006-06-16	To prevent failure of the crankshaft	24 FEB 2023 4820.2 ETT	Not applicable per crankshaft S/N: V13896	X			Ryan Dickerson WS9R575J <i>RD</i>
2006-10-21	CORRECTION - To prevent fatigue failure of the connecting rod and a possible uncommanded shutdown of the engine.	24 FEB 2023 4820.2 ETT	Installed connecting rods, P/N: LW-11750	X			Ryan Dickerson WS9R575J <i>RD</i>
2006-12-07	To prevent loss of engine power due to cracks in the cylinder assemblies	24 FEB 2023 4820.2 ETT	Installed NEW Superior cylinders.	X			Ryan Dickerson WS9R575J <i>RD</i>
2007-04-19	To prevent cylinder separation that can lead to engine failure	24 FEB 2023 4820.2 ETT	Not applicable per cylinder serial numbers.	X	N/A		Ryan Dickerson WS9R575J <i>RD</i>
2007-04-19R1	To prevent cylinder separation that can lead to engine failure	24 FEB 2023 4820.2 ETT	Not applicable per cylinder serial numbers	X	N/A		Ryan Dickerson WS9R575J <i>RD</i>
2009-26-12	To prevent loss of engine power due to cracks at the head-to-barrel interface and possible engine failure caused by separation of a cylinder head	24 FEB 2023 4820.2 ETT	Installed NEW Superior cylinders	X	N/A		Ryan Dickerson WS9R575J <i>RD</i>
2012-03-07	To address a "machined-from-billet" HA-6 carburetor having a loose mixture control sleeve that rotated in the carburetor body	24 FEB 2023 4820.2 ETT	HA-6 carburetor not used on this engine.	X			Ryan Dickerson WS9R575J <i>RD</i>
2012-19-01	To prevent failure of the crankshaft	24 FEB 2023 4820.2 ETT	Not applicable per crankshaft S/N: V13896	X	N/A		Ryan Dickerson WS9R575J <i>RD</i>
2017-16-11	Engine Connecting Rod Assemblies Integrity	24 FEB 2023 4820.2 ETT	Installed new connecting rod small end bushings, P/N: SL13923A.	X			Ryan Dickerson WS9R575J <i>RD</i>

Central Planes

Sauk Centre, MN 56378

Page No. _____

DATE

(320) 352-3013

DRK

Date: 03/31/2023 **Reg. #:** N813CT **Tach:** 4808.6 **Total Time:** 4820.2**Make:** Lycoming **Model:** O-360-A4M **S/N:** L-31073-36A **TSMOH:** 0.0

1. Installed engine in N813CT after overhaul using all new firewall forward hoses, new engine mount isolators, and all accessories listed in Western Skyways overhaul entry.
2. Engine mount was cleaned up, primed and repainted.
3. Serviced with Phillips 20W-50 type M oil and new filter installed.
4. Ground run up check ok, no leaks noted, mag check ok.
5. Reinstalled 76EM8S5-0-60 S/N 35998K prop and torqued to specs.
6. I have inspected this aircraft and determined it to be airworthy for ferry flight from KPEX to KD39. See Ferry Permit from MSP FSDO issued this date.

Thomas J Wenker 3136772IA *Thomas J Wenker*

Central Planes

Sauk Centre, MN 56378

(320) 352-3013

Date: 04/19/2023 **Reg. #:** N813CT **Tach:** 4809.1 **Total Time:** 4820.7**Make:** Lycoming **Model:** O-360-A4M **S/N:** L-31073-36A **TSMOH:** .5

1. Inspected engine after .5 hr ferry flight with no defects noted.
2. I certify this engine has been inspected in accordance with an annual inspection and determined airworthy at this time. Thomas J Wenker 3136772IA *Thomas J Wenker*



Executive Air Taxi Corporation
 (701) 258-5024
 2301 University Dr. Bldg 48
 Bismarck, ND 58504

Date: 5/14/2024; Aircraft: N813CT; Type: PA-28-181; S/N: 28-8590080; Hobbs:; Tach: 4837.10; Total Time: 4848.70; LG Cycles:; Engine - Type: O-360-A4M, S/N: L-31073-36A, Time: 4848.70; Prop - Type: 76EM8S5-0-60, S/N: 35998K, Time: 3802.70

C/W Engine 100 Hr. Inspection IAW Piper PA28-181 Inspection Report, Section B, 1-60 and PA28-181 AMM 70-00-00. Drained old oil and changed filter P/N AA48110-2. Serviced with 8 QTS. Phillips 20W50 engine oil IAW PA28-181 Inspection Report (B Engine Group) and AMM 12-12-00. Removed spark plugs from engine, cleaned, gapped and inspected. No defects noted. Installed in engine and torqued to 300 inch lbs. IAW PA28-181 Inspection Report (B Engine Group) and PA28-181 AMM 74-20-00. Removed and replaced engine induction filter P/N BA-10 IAW Piper PA28-181 Inspection Report (B)(24) and PA28-181 AMM 12-25-00. Compression Check: #1 80/80, #2 80/80, #3 80/80, #4 80/80. IAW Piper PA28-181 Inspection Report Section B (14). Cut open oil filter and inspected. No defects noted.

This aircraft and/or component identified above was inspected and/or repaired IAW current FAR's and I certify it to be in an airworthy condition, and is approved for return to service, with respect to the work performed.

WO# 27088 Date 4/14/24 Signature Don C
 Executive Air Taxi Corp. Maintenance Release - Repair Station CTYR019D
5/14/24



Executive Air Taxi Corporation

(701) 258-5024

2301 University Dr. Bldg 48

Bismarck, ND 58504

DATE _____

Date: 6/13/2025; Aircraft: N813CT; Type: PA-28-181; S/N: 28-8590080; Hobbs:; Tach: 4848.30; Total Time: 4859.90; LG Cycles:; Engine - Type: O-360-A4M, S/N: L-31073-36A, Time: 4859.90; Prop - Type: 76EM8S5-0-60, S/N: 35998K, Time: 3813.90

C/W engine annual/100 hour inspection IAW Piper PA-28-181 Inspection Report PN# 230-1039 and FAR 43 Appendix D.

C/W AD Bi-weekly search.

Compression Check : #1 = 74/80, #2 = 76/80, #3 = 74/80, #4 = 74/80

Removed spark plugs, cleaned, gapped, and rotated. No defects noted IAW Piper PA-28-181 AMM 74-20-00.

Drained oil and changed filter PN# AA48110-2. Cut open old filter and inspected, no defects noted. Serviced with 8 qts Phillips 20w-50 IAW Piper PA-28-181 Inspection Report and AMM 12-12-00.

AD 2024-21-02 N/A, connecting rods replaced @ engine overhaul past affected part number ship date.

This aircraft and/or component identified above was inspected and/or repaired IAW current FAR's and I certify it to be in an airworthy condition, and is approved for return to service, with respect to the work performed.

WO# 27344

Date 6/13/25

A handwritten signature in black ink, appearing to read 'Dan L.'.

Signature _____

Executive Air Taxi Corp. Maintenance Release - Repair Station CTYR019D