



NATIONAL TRANSPORTATION SAFETY BOARD

Office of Aviation Safety
Washington, D.C. 20594

October 25, 2017

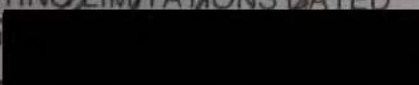
STRUCTURES

Group Chairman's Factual Report

ERA16LA209

**Attachment 1 – Maintenance Records
(68 pages)**

UNITED STATES OF AMERICA
DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
SPECIAL AIRWORTHINESS CERTIFICATE

A	CATEGORY/DESIGNATION		Restricted		
	PURPOSE		Agriculture & Pest Control		
B	MANUFACTURER	NAME	N/A		
		ADDRESS	N/A		
C	FLIGHT	FROM	N/A		
		TO	N/A		
D	N- 2283M		SERIAL NO. 1Z024-25		
	BUILDER PZL Mielec		MODEL PZL M-18A		
E	DATE OF ISSUANCE 6/8/94		EXPIRY NA		
	OPERATING LIMITATIONS DATED 6/8/94		ARE A PART OF THIS CERTIFICATE		
	SIGNATURE  Richard L. Arnett		DESIGNATION OR OFFICE NO. ATL-MIDO, CE42		

Any alteration, reproduction or misuse of this certificate may be punishable by a fine not exceeding \$1,000 or imprisonment not exceeding 3 years, or both. THIS CERTIFICATE MUST BE DISPLAYED IN THE AIRCRAFT IN ACCORDANCE WITH APPLICABLE FEDERAL AVIATION REGULATIONS.

RESTRICTED

Date: 6/8/94

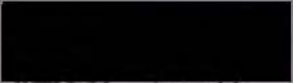
Make: PZL Mielec

Model: PZL M-18A

Serial No.: 1Z024-25

Registration No.: N2283M

1. No person may operate this aircraft for other than the purpose of Agricultural & Pest Control. Additionally, this aircraft shall be operated in accordance with applicable air traffic and operating rules of FAR 91, and all additional limitations herein prescribed under the provisions of FAR 91.313.
2. No operations shall be conducted over densely populated areas or in congested airways except for take-offs and landings.
3. Day/Night VFR operation is authorized.
4. No person may operate this aircraft for carrying persons or property for compensation or hire.
5. No person may be carried on a Restricted category civil aircraft unless that person is necessary for the accomplishment of the work activity directly associated with that special purpose.


Richard L. Arnett
Aviation Safety Inspector (Mfg)
Atlanta Manufacturing Inspection District Office

Aircraft Record General Information

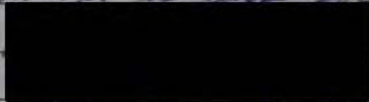
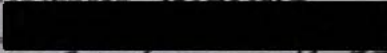
Manufacturer WSK PZL MIELEC Model M-18A DROMADER
Serial 12024-25 Registration Number N2283M
Date of Manufacture 3/94

Engine(s) currently installed:

Manufacturer PZL KALISZ Model ASz-62IR-M18 Serial KAC315004
Manufacturer _____ Model _____ Serial _____

Propeller(s) currently installed:

Manufacturer WSK PZL WARSZAWA Model AW-2-30
HUB Model _____ Serial W544001 Serial _____
Blade Model _____ Serial _____ Serial _____ Serial _____
Blade Model _____ Serial _____ Serial _____ Serial _____

DATE 19 <u>94</u>	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.)
June 8, 1994			1.9 HRS	I have assembled and inspected this aircraft and find it conforms to FAA TC Data Sheet A47EU and that it is safe for operation 
				Melrose BSA Facility Mgr.
				I have inspected this aircraft and issued a <u>EXPERIMENTAL</u> Airworthiness Certificate dated <u>6/8/94</u>
				Signed: 
				Showing Compliance with FARs

DATE 19 <u>94</u>	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>June 8, 1994</u>	<u>.5</u>	<u>1.4 hrs</u>		This aircraft has been flown and found to conform to Mexico USA flight test program. [Redacted] Facility Mgr.
				I have inspected this aircraft and issued a <u>Restricted</u> Airworthiness Certificate dated <u>6/08/94</u> .
				Signed: [Redacted] Agricultural & Pest Control

© ASA 1993

DATE 19 <u>96</u>	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.)
4-10			997.0	removed piston engine and related equipment, removed collins aircraft dynamics air conditioning system, removed AL Aviation rudder and elevator servo kit. Serviced all 3 landing gear struts, removed artificial horizon at owner's request, repositioned crop hawk key pad, replaced screws in inspection panels, removed tach indicator, Installed Garrett TP8331-104A S/N P-54314 and Hartzell propeller model HC-B3TN-5C/T10282 S/N BU4253 IAW STC SA09039SC

SEE NEXT PAGE

DATE 19__	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.)
				SEE FORM FAA 337, installed Gearing
				Tabs on ailerons, elevator and
				rudder INW STC SA 090635C SEE
				FAA Form 337, installed wheel
				strobe lights SEE FAA FORM 337
				installed ZEE SYSTEMS R134
				Air conditioning system SEE FAA
				Form 337, preformed weight and
				balance SEE weight and balance
				sheet dated 4/15/96 I certify
				that this aircraft was inspected
				in accordance a annual inspection
				SEE next page

DATE 19__	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.)
				and it was determined to be in an airworthy condition. performed ground runs all systems ops ck'd and leak ck'd ok Aircraft was Test Flown and it was determined to be that it performed SATIS.
4-14-96	0.9		997.9	I certify that This aircraft DRONADON N-22837 Serial # 12 024-25 was inspected for special Flight from West Memphis AR To Hermiston OR and found to be safe for flight intended

DATE 19 <u>96</u>	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.)
4-11	Hobbs:	997.0		Dynamic Balanced & Vibration Spectrum Tracked this A/C Spinner - Propeller - Engine Comb. as per "specs." See Propeller Log for Complet. & detailed entry. - END - [REDACTED]
4-30-96	Hobbs	1107.2		Serviced Battery's Replaced Tie wires Repaired wires on Right side, [REDACTED]
6-17-96	Hobbs	1232.5		Repaired crack in skin on Left wing with Patch - Replaced Tie wires Tie and Tube with, Replaced

DATE 19__	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.)
				Rear strut Boot with new. Replaced Ignition Box with serviceable unit. [REDACTED]
8-19-96	Holls	487		Replace left main tire pack wheel Bearings Repair belly skin, serviced Batterys [REDACTED]
9-23-96	Holls	443		Repaired skin on Left & Right wing [REDACTED]
10-4-96	Holls	450-41		Replaced Two Batterys (G-88) with new checked water OK. Dmg. A [REDACTED] AP
10-10-96	Holls	455-41		Replaced Rivets in Vent shute [REDACTED] [REDACTED]

DATE 19__	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.)
1/29/97	15958			Removed Hartzell Propeller mod. HCB3TN-5/T10282 ser#BV4453 and installed Hartzell propeller mod. HCB3TN-5C/T10290N ser#-BV4253 IAW STC SA 09039SC.
1/29/97	15958			Replaced engine wiring harness Complete with cannon plugs system's op's checked ok changed Airconditioner Evaporator re service with R134 from

Dated: 4/22/97

Hobbs 1,698.8

Total Time A.E. 1,698.8 *OK*

Opened airframe, checked cables, pulleys, hinges. Replaced rudder cables aft section. Replaced aft rudder cable pulleys with new from Melex, USA. Replaced bolt in rudder servo arm. Repaired crack in vertical fin, repaired crack in elevator servo, repaired crack in wing center section at pump attach fitting, repaired skin in center section at left gear on top of wing. Repaired crack in skin on right wing trailing edge at flap well. Replaced rivets on left inboard flap. Sealed fuel tanks left and right at the wing attach point. Replaced center belly skin with new from Melex. Repaired front belly skin. Replaced two check valves on brake system. Repaired grounding strap on right elevator, checked and serviced hydraulic system, checked brakes and wheel bearings. Removed and replaced air conditioning compressor with new unit and recharged. Lubed controls, checked AD 90-20-03 aileron attach points. Checked fuel screen. Replaced Scott temperature gauge with new.

I certify that this aircraft has been inspected in accordance with a 100 Hr/Annual Inspection and have determined it to be in airworthiness condition.

IA

Denny R. Nave

DATE 19__	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE
7-23-9	Tach Hobbs	1,064.5	

Installed Micro VG System per STC
#SA00443SE Refer to Form 337 this
da [REDACTED]

Date: 2/17/98

Hobbs: 1.607.2

Test flight of N2283M SN 1Z024-25, after alternation of belly configuration. I have test flown the aircraft in slow flight in ground effect with full flaps and no flaps and found handling characteristics to be better than original configuration. I have test flown the aircraft in stall configuration with power, without power, with flaps, without flaps, both empty and loaded configuration, and found the flight characteristics were improved.

Signed: [REDACTED]

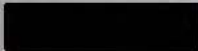
Dated 2/17/98

Hobbs: ^{1,307.2}
~~1,307.2~~
~~1,307.2~~

Total Time: ^{2304.2}
~~1,896.7~~
~~2,604.0~~

Opened airframe, checked cables and pulleys, replaced rudder pulleys in aft of airframe, replaced batteries, installed water tank, lowered belly skin, new control grip, SEE 337s this date. Repaired corroded skin in center section with new part. Repaired cracks in wing skin. Resealed hopper seal. Resealed left and right fuel tanks, cleaned tanks and fuel screens. Charged accumulator, resealed fuel caps, replaced tailwheel lock spring, replaced placards for flaps, hopper, safety belts, emergency fuel pump. Replaced five VGs, checked tires, wheels, brakes, serviced hydraulic system. Complied with AD #90-20-03, checked OK. Due each 12 months. 500 H. @

I certify that this aircraft has been inspected in accordance with an Annual Inspection and have determined it to be in airworthiness condition.

 IA  8
Denny R. Nave

DATE 19__	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.)
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4-10-98	1307.2		Holbs 1409	Installed Jathor GPS system, revised w/B date, [redacted] 7 to
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6-21-98	Holbs	1807.0	CW Ad 90-02-03	Adheron Hing [redacted] [redacted]
Inspected OK			Due at 2307.2	

9-18-98	Holbs	2090.0	Replaced DRing in left strut	
			CAP & Serviced	AP [redacted]

Dated 2/1/99

Hobbs: 2,099.1

Total Time: 3,096.1

Opened airframe, checked cables, pulleys and hinges. Serviced struts, checked tires and brakes. Replaced rudder cables with new, replaced four rudder pulleys. Replaced both door windows with new. Replaced windshield and side windows with new from Melex. Repaired rudder servo rod end attach points and replaced all rod ends. Repaired elevator servo rod end attach points and replaced rod ends. Repainted engine mount in one location due to heat damage. Repaired small cracks in both wings. Repaired side panel attach points. Repaired side panels. Replaced screws in center section stainless steel panel. Replaced elevator rod ends and pivot bolt with new. Replaced seat covers with new. Replaced R & L rudder pedal pivot bolts with new. Replaced right outside door handle. Cleaned and repainted interior. Sound proofed pilot and passenger cockpit with sound proofing foam and foil. Engine removed and reinstalled with new Lord engine mounts and bolts. Serviced hydraulic system and engine oil system. Serviced batteries. Cleaned oil cooler. Cleaned fuel sumps. Changed fuel filter.

[REDACTED]

I certify that this aircraft has been inspected in accordance with an Annual Inspection and have determined it to be in airworthiness condition.

DATE

RECORDING

TODAY'S

TOTAL

Description of Inspections, Tests, Repairs and Alterations

311

N2283M, PZL-M18A, S/N 1Z024-25

W.O. 3838

June 20, 2000

Tach time: 2965.8 hours, 780 cycles since CAM



Removed engine P-54314 having 2965.8 hours SCAM, and 780 cycles SCAM, and installed *loaner* engine P-54126 having TSO 4167.5 hours/CSO 4668 cycles. Oil cooler replaced with *repaired* oil cooler P/N 10717B, S/N 1076 (form 8130-3 provided by Pacific Oil Cooler Service, Inc., CRS# RF3R813L, dated 4-11-00). Engine serviced with **Exxon 2380** oil. Propeller reinstalled IAW **AD83-08-01R1**. Engine leak checked and functionally checked satisfactory. Dynamically balanced propeller to .05 IPS. Because the aircraft emergency shut-down linkage is incomplete, this log entry does not return the aircraft/engine to service.

details are on file at this agency under the above work order.

Signed,

Inspector, Aero Air LLC, CRS# 091R003Y

DATE

19__

Dated 01/31/00 Hobbs: 2,724.3

Total Time: 3,694.3

or Repair

Opened airframe, checked and lubed cables, pulleys and hinges. Replaced lower rudder bearing. Repaired skin on belly and rudder. Replaced back flush cable. Repaired side panels. Serviced batteries. Changed fuel filters. Resealed tail strut and lubed. Checked wheel bearings and brakes. Serviced hydraulic system. Replaced placards in cockpit. Replaced boots on hopper indicator. Replaced one VG. Replaced one landing light. AD 90-20-03, N/A SN; AD 90-20-04, N/A modified to turbine; AD 94-26-07 N/A mod. #.

I certify that this aircraft has been inspected in accordance with an Annual Inspection and have determined it to be in airworthiness condition.

IA

Denny R. Nave

DATE 19__	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.)
7-30-2000	Hobbs	3036-6	Eng	S# P54126 Lower Form Aerovar Removed Installed Original Eng S# P54314 After Repairs, [REDACTED] B

Date: 01/09/01 Hobbs: 3,197.7 TT: 4,195.7

hnician or Repair

Opened airframe, checked cables, pulleys, hinges. Replaced main tires. Checked wheels and brakes. Serviced hydraulic system, serviced batteries. Repaired skin and hangers. Replaced wiper blade. Replaced hopper seal. Repaired skin cracks on wing center section. Replaced ground straps. Replaced battery box vent scatt hose. Replaced right nav. light. Complied with AD 2000-18-12/39-11897. Replaced both left and right lower attach fittings with new. Checked upper fittings, found to be serviceable at this time. Parts replaced D22.400.331L and P, D21-400.42.0L and P, D22.200.36.1 and D21.200.49.0 Kits. Replaced L.H. Rear fitting to A.F. PN D21.530.0031L. Replaced two 1597A-22-UT flex joints (header tank). Replaced PN D7311FF.002 pipe (brake line). Replaced upper fitting mandrel D21.535.00.0 with new. Bulletin E/02.170/2000 complied with.

I certify that this aircraft has been inspected in accordance with an Annual Inspection and have determined it to be in airworthiness condition.

Denny R. Nave

IA

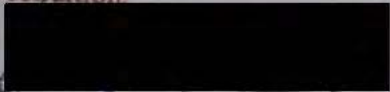
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DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations
19 ____				Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages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

Date: 04/17/02 Hobbs: 3,661.7 TT: 4,658.7

Opened airframe, checked cables, pulleys, hinges. Serviced hydraulic system. Replaced three batteries with new. Replaced aft rudder cables and pulleys. Replaced bushings in tailwheel strut and axle bolt and bushings. Replaced tailwheel lock cable and spring. Replaced torque/oil temp/fuel psi wiring with shielded in accordance with Carl Bailey instructions. Cleaned rusted tubing and painted. Cleaned or replaced corroded skin on center section, left and right flap, vertical fin, side panels. Repaired front of belly skin with new stainless steel and side strips. Sealed right fuel cell. Removed dents in leading edge. Repaired bird strike damage on right wing. Replaced landing lights. Replaced left outboard landing light lens. Replaced seven VGs on left and right wing. Replaced restrictor fitting on right brake application gauge. Changed airframe fuel filters.

I certify that this aircraft has been inspected in accordance with an Annual Inspection and have determined it to be in airworthiness condition.


Denny R. Nave

 A

[illegible]

DATE 19__	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.)

CONTINUED FROM PREVIOUS PAGE.

**INSTALLED DELTA TURBINES INC MODIFIED HOPPER TOP
TO INCREASE HOPPER SIZE TO 785 GAL. THIS MODIFICATION
PERFORMED USING DELTA TURBINES INC DRAWINGS AND
DER APPROVAL. SEE 337 THIS DATE. AIRCRAFT WEIGHED AFTER
ABOVE CHANGES. NEW WEIGHT AND BALANCE FORM PREPARED AND
COPY PLACED IN FLIGHT MANUAL.**

**INSTALLED NEW MAIN LANDING GEAR STRUTS, NEW GLASS AND
PLASTIC SIDE WINDSHIELDS, AND NEW PLASTIC DOOR WINDOWS.**

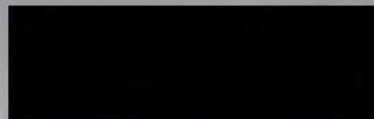
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DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific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

**AD00-18-12 COMPLIED WITH BY MAGNETIC PARTICLE
INSPECTION. NO CRACKS FOUND.**

NEXT INSPECTION DUE 01/25/06 OR 5653.7 HOURS TOTAL TIME.

**I CERTIFY THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE
WITH AN ANNUAL INSPECTION AND FOUND TO BE IN AN AIRWORTHY
CONDITION.**



CARL BAILEY [REDACTED] IA

DATE 19 _____	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.)
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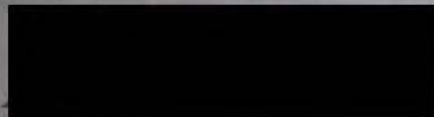
N2283M

June 21, 2006

Hobbs: 930

Total: 6389

All controls checked and lubed; wheels and brakes checked; lights checked; replaced rudder cables; repaired seat mesh; replaced hopper gate and door seal; replaced fuel header tank with new; replaced right door glass; sealed inbd of right fuel tank; c/w service bulletin E/02.172/2001 "service life extension to 10,000 hours". Checked or c/w mandatory service bulletins through E/02.184/2003. For AD status, see separate sheet.



Steve A. Hall

A&P [redacted] IA

I CERTIFY THAT THIS aircraft HAS BEEN
 INSPECTED IN ACCORDANCE WITH A annual
 INSPECTION AND WAS DETERMINED TO BE IN
 AIRWORTHY CONDITION.

DATE 19__	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.)
9-28-06				Removed engine P44327C for prop stack inspection -
9-28-06		-0-Cam		installed P44244 with -0-S CAM systems chk. test flown. all motors satisfactory.
9-29-06	Hobbz 1224			Replaced Zee motor; rechecked right gear case S/N 8478
	Total 6893			
12-1-06	Hobbz 1424			Replaced hour meter
	New hobbz: 00.00			

DATE

19

RECORDING
TACHTODAY'S
FLIGHTTOTAL
TIME IN

Description of Inspections, Tests, Repairs and Alterations

Entire must be completed with 81

AIR
REPAIR, INC.920 Airport Service Road - Cleveland, Mississippi 38732 • 662-846-0328 • Fax 662-843-0503
E-mail: info@airrepair.com • http://www.airrepair.com

N2283M

May 14, 2007

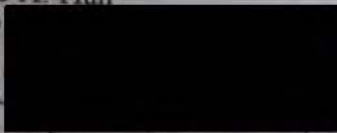
Hobbs: 425

TTAF: 7318

All controls checked and lubed; wheels and brakes checked ok; lights checked; replaced aft rudder cable pulleys; replaced forward elevator control rod-end bearing; replaced aft elevator bellcrank bearings; replaced dry boot; serviced a/c; tightened mesh in pilots seat; replaced lower set of engine mount rubbers; replaced fuel drains as needed; side panels patched as needed; for AD status, see separate sheet.

I CERTIFY THAT THIS Aircraft HAS BEEN
INSPECTED IN ACCORDANCE WITH A Annual
INSPECTION AND WAS DETERMINED TO BE IN
AIRWORTHY CONDITION.

Steve A. Hall

A&P 

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.)
19				
7-1-07	590	Hobbs		Replaced starter/generator with overhauled S/N 3076.
7-1-08	Hobbs 1056			Replaced seat bottom mesh; replaced the lock handle Assy; cleared pilot mast; patched hole in right lift flap.

DATE 19__	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.)
6-1-08	Hobbs 547			All controls checked + lubed; wheels + brakes checked; lights checked; replaced rubber padding; repaired right landing light; replaced horn relay; replaced missing VG's; New AD 2000-18-12 by Ray, partide - no crack indications noted. for A.V. status see separate sheet.
	Tbfm 7440			
	New = 00.00			
				I CERTIFY THAT THIS <u>aircraft</u> HAS BEEN INSPECTED IN ACCORDANCE WITH <u>ammul</u> INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.

DATE 18	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.)
4-27-09	Hobbs	564		all controls checked & lubed, lights checked
	TOTAL	7457		aft rubber cable pulley replaced, wheel & brakes checked, replaced aft elevator rod bearings; C/A AD 2000-18-12 by mag particle inspection; for AD, statly, see repair sheet.
				CERTIFY THAT THIS 1000 ¹⁰⁰⁰ WAS BEEN INSPECTED IN ACCORDANCE WITH A <u>Annual</u> INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.
9-14-09	Hobbs	737		Replaced A/c motor; replaced water injection pump; replaced fuel flow & pressure gauge assy & both Transducers.

DATE 19__	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.)
10-9-09	737		7630	Rental engine removed + original engine reinstalled, starter/generator overhauled; oil pressure gauge out for repairs; Fuel flow gauge + Transducer replaced with new Electronic International

N2283M

October 9, 2009

Hobbs: 737

Adjusted TIS: 6147

Total time adjusted due to recording error. Turbine engine installed at 997 TIS. Hourmeter was incorporated into Percent Tac, and recorded all the time. New hourmeter and air switch for hourmeter installed at 5459 TIS. This records only flight time, as required by A.C. 43-9C, par 5.g.(1) and defined in FAR Part 1, section 1.1. Upon evaluation of flight profiles and comparison of the two recording devices, it is determined that the Percent Tac hourmeter is incorrect by a factor of .63. Total time adjusted from 7630 to 6147.

Cert. #

Daniel Simard



N2283M

May 20, 2010

Hobbs: 1173

Total: 6147

All controls checked and lubed; wheels and brakes checked; right wing tip skin replaced; left outboard wing leading edge skin replaced; missing VG's replaced; windshield removed and frame replaced; replaced left and right elevator attach bellcranks; replaced left and right aft trim bellcranks; replaced bearings in left and right flap interconnect rods; replaced aft control stick torque tube bearing; replaced water injection pump; replaced windshield washer pump; serviced hydraulic system and charged accumulator; replaced lower rudder bearing; wing attach fittings inspected per AD 2000-18-12; no cracks detected at this time; for AD status, see separate sheet.

Steve A. Hall
A&P [REDACTED]

I CERTIFY THAT THIS aircraft HAS BEEN
INSPECTED IN ACCORDANCE WITH A annual
INSPECTION AND WAS DETERMINED TO BE IN
AIRWORTHY CONDITION.

Aircraft Log

N2283M

Hobbs 1605.6

Date 4-4-2011

TSN 28831.3

CSN 42037

TSCAM 3139.7

CSCAM 3815

Removed Engine (PN 3102540-4) (SN P-44424C) and sent to National Flight Services for repair. See Work Order 55815. Engine installed per Delta Turbine Instructions for Continued Airworthiness for STC SA 09395C, engine removal and installation. Installed new lower engine mount rubbers PN 9910333-1. Installed overhauled oil cooler PN 10717B. Installed Hartzell Propeller model HC-BSMP-5BL, SN EVA2825 after inspected and repaired as needed by H & H Propeller Service. Engine filled with 10 qts BP2380 oil. Engine run up, checked for oil leaks and found to operate normal.



DATE	RECORDING TACH	TODAY'S FLIGHT	TOTAL TIME IN	Description of Inspections, Tests, Repairs and Alterations
5-31-2011				
PZL Mielec	Model PZL M-18A	SN 1Z024-25	HOBBS 1606.7	
Installed new 800-260-6Ply Aero Classic Tire and new 800-260 NR-126 tube on left and right main wheels. Installed new left and right main wheel bearings pn. Z7513K. Installed new brake disc pn 041550011 and brake pad lining pn D41.550.03.1 left and right side. Brakes operationally checked and found to operate normal.				

Date 1 October 2011

Meter: 1654

TT: 6628

1. Annual inspection and lubrication completed this date IACW FAR.43 App. D.
2. Left elevator trim excess play, installed new bolts and bushings.
3. Rear rudder pulleys coming apart, installed new pulleys and mounting bolts.
4. Batteries serviced and charged.
5. C/W AD2000-18-12 by removing outboard wing panels, eddy current and mag particle Performed by Applied Technical services, no cracks found. Upper right fitting has scratch.
6. Installed wing panels, lubricated all bearings, operational check performed.
7. Serviced routine maintenance as per maintenance manual.

I certify that this aircraft has been inspected IACW an annual inspection as Per FAR Part 43, App. D and has been approved for return to service this date.

[Redacted Signature]

Frank O. Schumpert A&P [Redacted] IA

DATE

18

an or Repair



AIRCRAFT MAINTENANCE SERVICES, INC.

2203 Airline Drive
Camden, SC 29020

OCT 17, 2012 N2283M TOTAL 7365.8 HM 2391.8

ANNUAL INSPECTION COMPLETED PER M18 SERVICE MANUAL, INSPECTED ALL FLIGHT CONTROLS, LUBED ALL PIVOT POINTS. PRIMED AND PAINTED AFT FUSELAGE TUBING, RESEALED LEFT FUEL TANK. INSPECTED LANDING GEAR, RESEALED RIGHT BRAKE CALIPER. SERVICED HYDRAULIC TANK AND ACCUMULATOR. REPLACED BATTERIES. CW AD 00-18-12 BY MAGNETIC PARTICLE INSPECTION DONE BY ATS (SEE INSPECTION FORMS ATTACHED). ALL AD'S CW THRU BIWEEKLY 2012-20 (SEE AD LISTING IN ACFT RECORDS). I CERTIFY THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION ON THIS DATE OF OCT 17, 2012

JOHN A. KOENIG A&P [REDACTED] IA [REDACTED]



AIRCRAFT MAINTENANCE SERVICES, INC.

2205 Airline Drive
Camden, SC 29020

~~FEB 20, 2014~~ N2283M TOTAL 8042 HM 3068

ANNUAL INSPECTION COMPLETED PER M18 SERVICE MANUAL, INSPECTED ALL FLIGHT CONTROLS, LUBED ALL PIVOT POINTS., RESEALED LEFT FUEL TANK. INSPECTED LANDING GEAR, SERVICED HYDRAULIC TANK AND ACUUMULATOR. REPLACED BATTERIES. REPACED BOTH LEFT LOWER WING ATTACH FITTINGS AND EXPANDING MANDREL PER S/B E/02.170/2000. CW AD 00-18-12 BY MAGNETIC PARTICLE INSPECTION DONE BY ATS (SEE INSPECTION FORMS ATTACHED). ALL AD'S CW THRU BIWEEKLY 2013-26 (SEE AD LISTING IN ACFT RECORDS). REMOVED EXISTING SATLOC M3 GPS GUIDANCE SYSTEM AND INSTALLED HEMISPHERE BANTAM SYSTEM; CPU-1330-HH05732-0007, SCREEN-G003282 L.B.-B1332-PAR-00018, ANT-A2120130628176 IN EXISTING LOCATIONS. I CERTIFY THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION ON THIS DATE OF DEC 27, 2013.

JOHN A. KOENIG A&P [REDACTED] IA [REDACTED]



AIRCRAFT MAINTENANCE SERVICES, INC.

2809 Airline Drive
Clemens, SC 29629

JAN 22, 2015 N2283M TOTAL 8395 HM 3421

ANNUAL INSPECTION COMPLETED PER M18 SERVICE MANUAL, INSPECTED ALL FLIGHT CONTROLS, LUBED ALL PIVOT POINTS, INSTALLED SERVICABLE USED RIGHT INBOARD FLAP. INSPECTED LANDING GEAR, SERVICED HYDRAULIC TANK AND ACCUMULATOR. CW AD 00-18-12 BY MAGNETIC PARTICLE INSPECTION DONE BY ATS (JOB# P227320) (SEE INSPECTION FORMS ATTACHED). ALL AD'S CW THRU BIWEEKLY 2015-01 (SEE AD LISTING IN ACFT RECORDS). FABRICATE AND INSTALL PATCHES ON SIDE PANELS AS NEEDED. RESEAL WINDSHIELD AND SIDE WINDOWS. REPLACED A/C DRIVE BELT. I CERTIFY THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION ON THIS DATE OF JAN 22, 2015.

JOHN A. KOENIG A&P [REDACTED] IA



AIRCRAFT MAINTENANCE SERVICES, INC.

2203 Airline Drive
Camden, SC 29020

JAN 22, 2015 N2283M TOTAL 8395 HM 3421

ANNUAL INSPECTION COMPLETED PER M18 SERVICE MANUAL, INSPECTED ALL FLIGHT CONTROLS, LUBED ALL PIVOT POINTS., INSTALLED SERVICABLE USED RIGHT INBOARD FLAP. INSPECTED LANDING GEAR, SERVICED HYDRAULIC TANK AND ACUUMULATOR. CW AD 00-18-12 BY MAGNETIC PARTICLE INSPECTION DONE BY ATS (JOB# P227320)

Aircraft Maintenance Services

2203 Airline Drive Camden, SC 29020

803-713-0200

JULY 2, 2015 N2283M TOTAL 8562.9 HM 3593.9

INSTALLED SERVICABLE USED WING CENTER SECTION (P/N DZ1.000.00.0KT), ETT 7460 HRS. USING EXISTING HARDWARE, ETC.

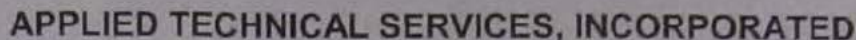
JOHN A. KOENIG AIA [REDACTED] [REDACTED]

DATE 19 <u>2016</u>	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.)
JAN 15	3593.9		8567.9	ANNUAL INSPECTION COMPLETED PER M18 SERVICE MANUAL, INSPECTED ALL FLIGHT CONTROLS, LUBED ALL PIVOT POINTS, CW AD 2000-18-12 BY MAGNETIC PARTICLE INSPECTION DONE BY HTS (JOB#P23762) (SEE INSPECTION FORMS IN AIRCRAFT RECORDS) ALL OTHER AD'S CWTHER BIWEEKLY 2016-01 (SEE LISTINGS) INSPECTED LANDING GEAR, REPLACED WHEEL BRAKE CYLINDER O-RINGS, SERVICED HYDRAULIC RESERVOIR, CHECKED ACCUMULATOR, INSTALLED NEW 70 PSI GAGE, REPLACED BOTTOM RUDDER CAP SKIN, PRIMED & PAINTED, PATCHED RUDDER MINOR CRACKS ON WING CENTER SECTION, PRIME & REPRIME, REPLACED AIRCRAFT BATTERIES, I CERTIFY THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION ON THIS DATE OF JAN 15 2016 JOHN A. KENNE AIA [REDACTED] IA [REDACTED]

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.)
MAY 17	3819.9			RESEAL WINDSHIELD, REPAIR GATE CROSS TUBE, TIGHTEN TAILWHEEL, SERVICE TAIL STRUT WITH NITROGEN, INSPECT & GREASE TAILWHEEL TRANSMISSION CROSS ROD, REPLACED WORN PIVOT BEARING ON TAIL SURFACE, REROUTE GPS DISPLAY WIRING TO CLEAR CONTROL STICK. JOHN A. KOENIG A+P [REDACTED]
MAY 31				TRUBROSTAT NOA HYDRAULIC PUMP, FOUND CHARGE WIRING, 200% REPAIRED WIRING, CHECKED GOOD. JOHN A. KOENIG A+P [REDACTED]

AD NOTES COMPLIANCE RECORD

AD#	Applicable S.B. # & Subject	Date & Hours @ Comp.	Method of Compliance	One Time	Recurring	Next Comp. @ Hrs/Date	Authorized Signature & Number
90-20-03	Aileron control system	NA by SN		X			Steve A. Hall A&P 587786743
90-20-04	Engine push-pull cables	NA		X			Steve A. Hall A&P 587786743
93-02-01	Fuel spraying	NA		X			Steve A. Hall A&P 587786743
93-15-11	Prop control loss	NA		X			Steve A. Hall A&P 587786743
94-28-07	Fuel control	NA		X			Steve A. Hall A&P 587786743
95-16-08	Turbine rotor failure	NA		X			Steve A. Hall A&P 587786743
96-15-04	Inspection for forging flaws or cracks	NA		X			Steve A. Hall A&P 587786743
96-18-14	CORRECTION - Hub replacement	NA by SN		X			Steve A. Hall A&P 587786743
97-15-10	AFM/POH revision	NA		X			Steve A. Hall A&P 587786743
98-12-09	Fuel manifolds	NA		X			Steve A. Hall A&P 587786743
2000-18-12	Detect and correct cracks in the lugs	5/7/2007 7318 TT	Inspected ok.		X	7818 TT 5:08	Steve A. Hall A&P 587786743
2002-25-02	Prevent uncontained engine failures	NA		X			Steve A. Hall A&P 587786743
2004-09-29	Prevent cracked first stage turbine disks	NA		X			Steve A. Hall A&P 587786743
2005-14-11	Prevent blade failure that could result in separation of a propeller blade	NA		X			Steve A. Hall A&P 587786743
2006-14-03	To prevent uncontained failure of the turbine rotor due to low-cycle-fatigue (LCF)	5/10/07 7318 TT	Cycle count updated		X	5:08	Steve A. Hall A&P 587786743



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Job # P189780 PO# 970 WO# N/A Date 2-24-12 Page 1 of 2

Aircraft Maintenance Services

2203 Airline Dr. Camden SC 29020

MATERIAL: Fe.

PART SIZE: various

INSPECTION PROCEDURE

SPECIFICATIONS: Polskie Zaklady Lotnicze Co SB E/02.170/2000, FAA AD 2000-18-12

ACCEPT / REJECT CRITERIA: No cracks

- | | | |
|-------------------------------------|---------------------|-----------|
| ☐ | DRY | |
| ☒ | WET | |
| ☐ | RECTIFIED | |
| ☐ | DC | |
| ☒ | AC | |
| ☐ | CENTRAL CON. (AMPS) | N/A |
| ☐ | HEAD (AMPS) | N/A |
| ☐ | COIL (AMPS) | Fixed |
| ☒ | DEMAG | < 2 gauss |

M.T. EQUIP.	Parker Probe
PARTICLE MFG.	Magnaflux
PARTICLE BATCH NO.	11C07K
PARTICLE COLOR	14AM
PROD SPACING	As required
AMPERAGE	Fixed
METER CAL. DATE	N/A
YOKE CAL. DATE	12 Sept. 12
LIGHTING EQUIPMENT	Blacklight

INSPECTION RESULTS

IDENTIFICATION	ACCEPT	REJECT	QUANTITY	REMARKS
Center Wing - Outboard				
Wing Attach Points				
Right Upper	✓			
Right Lower	✓			
Left Upper	✓			
Left Lower	✓			
				NO RELEVANT FOD.
				at time of insp.
				A/C# N2283M
				S/N# 1702425

INSPECTION PERFORMED BY:

Mitchell A. Walton # [REDACTED] Level II M.T.

Level M.T.

CLIENT APPROVAL:

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NDT INSPECTION SYSTEM

Repair Station – Inspection Procedure Manual

Job # P189780

PO # 970

Date

10/24/12
12-24-12
[Signature]

Page 2 of 2

NONDESTRUCTIVE TESTING MAINTENANCE RELEASE IN ACCORDANCE WITH FAR PART 43

ATS Job No.: P189780

Purchase Order: N/A

Customer: AIRCRAFT MAINTENANCE SERVICES

2203 AIRLINE DR. CAMDEN SC 29090

Item (aircraft, engine, propeller, etc.): AIRCRAFT

Make: POLSKIE

Model: PZL M18A

Serial No.: 1702425

Tail #: N2283M

Inspected Area: CENTER WING TO OUTER WING ATTACH FITTINGS IAW POLSKIE
ZAKLADY SB E/02.170/2000, FAA AD 2000-18-12. REFER TO INSP. REPORT

Inspected Method: FLUORESCENT MAGNETIC PARTICLE INSP.

This document certifies that the work identified and described above 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.

Pertinent details of the inspection are on file at this repair station under Job No.: P189780

Date: 24 October 2012

Signed: Mitchell A. Walton # [Redacted]

(Authorized Representative)

HC4D227M

(Certificate Number)



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MAGNETIC PARTICLE INSPECTION REPORT

Job # P207068 PO # 1073 WO # Date 11-8-13 Page 1 of 2

Aircraft Maintenance Services 2203 Airline Dr. Camden, SC. 29020

MATERIAL: CS

Polskie Zaklady M18 S/N: 1Z 024-25 T/N: N2283M

PART SIZE: Various

INSPECTION PROCEDURE

SPECIFICATIONS: Polskie Zaklady Lotnicze Co. SB E/02.170/2000, FAA AD 2000-18-12

ACCEPT / REJECT CRITERIA: No Cracks Allowed

- ☐ DRY
☒ WET
☐ RECTIFIED
☐ DC
☒ AC
☐ CENTRAL CON. (AMPS) _____
☐ HEAD (AMPS) _____
☐ COIL (AMPS) _____
☒ DEMAG _____ < 2 Gauss

M.T. EQUIP. Parker Probe B100 # ATS 3638

PARTICLE MFG. Magnaflux

PARTICLE BATCH NO. 11C07K

PARTICLE COLOR 14AM

PROD SPACING 3-5"

AMPERAGE fixed @ 6

METER CAL. DATE N/A

YOKE CAL. DATE 9-12-13

LIGHTING EQUIPMENT Blacklight

INSPECTION RESULTS

IDENTIFICATION	ACCEPT	REJECT	QUANTITY	REMARKS
Center wing to outboard wing attach points				No relevant indications noted at time of inspection.
R/H upper	√	N/A	1	
R/H lower	√	N/A	1	
L/H upper	√	N/A	1	
L/H Lower	√	N/A	1	
Spare Center wing section				No relevant indications noted at time of inspection.
R/H upper	√	N/A	1	
R/H lower	√	N/A	1	
L/H upper	√	N/A	1	
L/H Lower	√	N/A	1	

INSPECTION PERFORMED BY:

Thomas E. Dixon Level II M.T.

Level M.T.

CLIENT APPROVAL:

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NDT INSPECTION SYSTEM

Repair Station – Inspection Procedure Manual

Job # P207068 PO # 1073 WO # Date 11-8-13 Page 2 of 2

NONDESTRUCTIVE TESTING MAINTENANCE RELEASE IN ACCORDANCE WITH FAR PART 43

ATS Job No.: P207068 Customer W/O: 1073
Customer: AIRCRAFT MAINTENANCE SERVICES 2203 AIRLINE DRIVE CAMDEN, SC.
29020

Item (aircraft, engine, propeller, etc.): AIRCRAFT

Make: Polskie Model: M18A
Serial No.: 1Z 024-25 Other: T/N: N2283M

Inspected Area: CENTER WING TO OUTER WING ATTACH FITTINGS

Inspected Method: MT IAW POLSKIE ZAKLADY SB E/02.170/2000, FAA AD 2000-18-12
Refer To Report.

This document certifies that the work identified and described above 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.

Pertinent details of the inspection are on file at this repair station under Job No.: P207068

Date: 11-8-13 Signed: Thomas E. Dixon
(Authorized Representative)

HC4D227M
(Certificate Number)

APPLIED TECHNICAL SERVICES, INCORPORATED

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MAGNETIC PARTICLE INSPECTION REPORT

Job # P227320 PO # 1001 WO # Date 12-31-14 Page 1 of 2

Aircraft Maintenance Services 2203 Airline Dr. Camden, SC. 29020

MATERIAL CS

Polskie Zakłady M18 S/N: 1Z 024-25 T/N: N2283M

PART SIZE: Various

INSPECTION PROCEDURE

SPECIFICATIONS: Polskie Zaklady Lotnicze Co. SB E/02.170/2000, FAA AD 2000-18-12

ACCEPT / REJECT CRITERIA: No Cracks Allowed

- ☐ DRY
☒ WET
☐ RECTIFIED
☐ DC
☒ AC
☐ CENTRAL CON. (AMPS) _____
☐ HEAD (AMPS) _____
☐ COIL (AMPS) _____
☒ DEMAG _____ < 2 Gauss

M.T. EQUIP. Parker Probe B100 # ATS 3638

PARTICLE MFG Magnaflux

PARTICLE BATCH NO. 11C07K

PARTICLE COLOR	14AM
----------------	------

PROD SPACING 3-5"

AMPERAGE fixed @ 6

METER CAL. DATE N/A

YOKECAL DATE 17 Dec 14

LIGHTING EQUIPMENT Blacklight

INSPECTION RESULTS

[illegible]

INSPECTION PERFORMED BY:

Thomas E. Dixon Level II M.T.

Level	M.T.
-------	------

CLIENT APPROVAL:

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NDT INSPECTION SYSTEM

Repair Station – Inspection Procedure Manual

Job # P227320 PO # 1001 WO # Date 12-31-14 Page 2 of 2

NONDESTRUCTIVE TESTING MAINTENANCE RELEASE IN ACCORDANCE WITH FAR PART 43

ATS Job No.: P227320 Customer W/O: 1001

Customer: AIRCRAFT MAINTENANCE SERVICES 2203 AIRLINE DRIVE CAMDEN, SC.
29020

Item (aircraft, engine, propeller, etc.): AIRCRAFT

Make: Polszkie Model: M18A

Serial No.: 1Z 024-25 Other: T/N: N2283M

Inspected Area: CENTER WING TO OUTER WING ATTACH FITTINGS

Inspected Method: MT IAW POLSKIE ZAKLADY SB E/02.170/2000, FAA AD 2000-18-12

Refer To Report.

This document certifies that the work identified and described above 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.

Pertinent details of the inspection are on file at this repair station under Job No.: P227320

Date: 12-31-14 Signed: Thomas E. Dixon #

(Authorized Representative)

HC4D227M

(Certificate Number)

APPLIED TECHNICAL SERVICES, INCORPORATED

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MAGNETIC PARTICLE INSPECTION REPORT

Job # P237675 PO # 1044 WO # Date 7-13-15 Page 1 of 2

Aircraft Maintenance Services 2203 Airline Dr. Camden, SC. 29020

MATERIAL: CS

Polskie Zakłady M18 S/N: 12 024-25 T/N: N2283M

PART SIZE: Varies.

INSPECTION PROCEDURE

SPECIFICATIONS: Polskie Zakłady Lotnicze Co. SB E/02.170/2000, FAA AD 2000-18-12

ACCEPT / REJECT CRITERIA: No Cracks Allowed

- ☐ DRY
☒ WET
☐ RECTIFIED
☐ DC
☒ AC
☐ CENTRAL CON. (AMPS) _____
☐ HEAD (AMPS) _____
☐ COIL (AMPS) _____
☒ DEMAG < 2 Gauss

MLT EQUIP. Parker Probe B100 & ATS 3614

PARTICLE MFG. Magnaflo®

PARTICLE BATCH NO. 11C07K

PARTICLE COLOR	14AM
----------------	------

PROD SPACING	3.5*
--------------	------

AMPERAGE _____ fuses at 6

METER CAL DATE N/A

YOKE CAL DATE 16 Jun 15

LIGHTING EQUIPMENT Blacklight

INSPECTION RESULTS

[illegible]

INSPECTION PERFORMED BY: _____ Thomas E. Dixon Level II M.T.
 _____ Level M.T.

CLIENT APPROVAL

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NDT INSPECTION SYSTEM

Repair Station – Inspection Procedure Manual

Job # P237675 PO # 1044 WO # Date 7-13-15 Page 2 of 2

NONDESTRUCTIVE TESTING MAINTENANCE RELEASE IN ACCORDANCE WITH FAR PART 43

ATS Job No.: P237675 Customer W/O: 1044

Customer: AIRCRAFT MAINTENANCE SERVICES 2203 AIRLINE DRIVE CAMDEN, SC.
29020

Item (aircraft, engine, propeller, etc.): AIRCRAFT

Make: Polszkie Model: M18A

Serial No.: 1Z 024-25 Other: T/N: N2283M

Inspected Area: CENTER WING TO OUTER WING ATTACH FITTINGS

Inspected Method: MT IAW POLSKIE ZAKLADY SB E/02.170/2000, FAA AD 2000-18-12

Refer To Report.

This document certifies that the work identified and described above 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.

Pertinent details of the inspection are on file at this repair station under Job No.: P237675

Date: 7-13-15 Signed: Thomas E. Dixon # [REDACTED]

(Authorized Representative)

HC4D227M

(Certificate Number)

5052



US Department
of Transportation
Federal Aviation
Administration

MAJOR REPAIR AND ALTERATION
(Airframe, Powerplant, Propeller, or Appliance)

Form Approved
OMB No. 2120-0020

For FAA Use Only

Office Identification

5025 TH

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. 1421). Failure to report can result in civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act of 1958).

1. Aircraft	Make WSK PZL MIELEC	Model M-18A
	Serial No. 1Z024-25	Nationality and Registration Mark N2283M
2. Owner	Name (As shown on registration certificate) CANAM AVIATORS INC	Address (As shown on registration certificate) 1021 MAIN ST STE 1150 HOUSTON, TX. 77002-6508

3. For FAA Use Only

4. Unit Identification

5. Type

Unit	Make	Model	Serial No.	Repair	Alteration
AIRFRAME	(As described in Item 1 above)				X
POWERPLANT					
PROPELLER					
APPLIANCE	Type				
	Manufacturer				

6. Conformity Statement

A. Agency's Name and Address	B. Kind of Agency	C. Certificate No.
DELTA TURBINES INC PO BOX 500 MCGEEHEE, AR. 71654	☒ U.S. Certified Mechanic	4315RS366
	☐ Foreign Certified Mechanic	
	☐ Certified Repair Station	
	☐ Manufacturer	

I certify that the repair and/or alteration made to the unit(s) identified in Item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

Date 01/25/05	Signature of Authorized Individual
-------------------------	--

7. Approval for Return To Service

Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is ☒ APPROVED ☐ REJECTED					
BY	FAA FL Standards Inspector	Manufacturer	x	Inspection Authorization	Other (Specify)
	FAA Designee	Repair Station		Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection 01/25/05		Certificate or Designation No. 	Signature of Authorized Individual 		

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

DATE
01/25/05

TACH TIME
4156.7

TOTAL TIME
5153.7

EXPANSION OF MATERIAL HOPPER FROM 700 GALLON CAPACITY TO 800 GALLON CAPACITY

PROCEDURE:

1. LAY UP NEW TOP IN DELTA TURBINES, INC. MOLD # 002, USING DOW DURICANE 8084 VINYL ESTER RESIN, 3 OZ MATT AND 18 OZ ROVING IN THE FOLLOWING MANNER:

STARTING FROM MOLD SURFACE: INSTALL A COAT OF CLEAR GEL, COAT OF RESIN, LAYER OF 3 OZ MATT, COAT OF RESIN, LAYER OF 18 OZ ROVING, COAT OF RESIN, LAYER OF 3 OZ MATT, COAT OF RESIN, COAT OF CLEAR GEL AND COAT OF WAX RESIN.

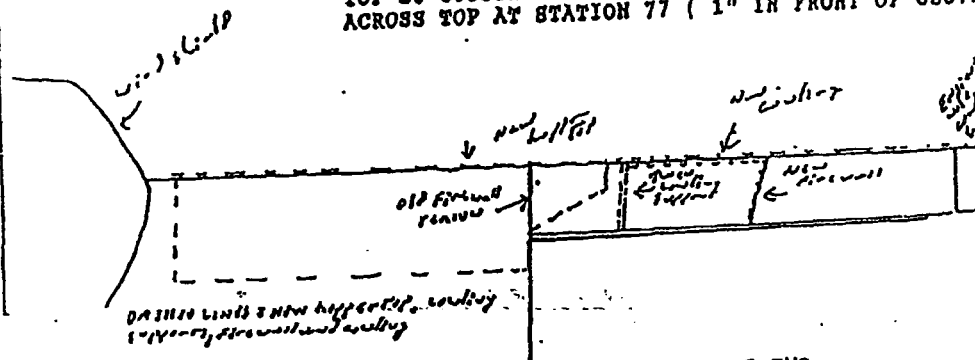
ATTACH DOOR TO HOPPER USING STAINLESS STEEL PIANO HINGE WITH AN3C STAINLESS HARDWARE. FABRICATE DOOR LOCKING DEVICE USING 1/8" FLAT STAINLESS AND 065 STAINLESS. TUBING IN DELTA TURBINE'S JIG AND ATTACH TO DOOR WITH AN3C HARDWARE.

2. CONSTRUCT NEW FWD FIREWALL FRAME AND AFT COWLING SUPPORT FRAME, IN DELTA TURBINE'S JIG, USING 6061 "2" FOR FIREWALL FRAME AND 6061 ANGLE FOR SUPPORT FRAME. CONSTRUCT NEW FIRE WALL FROM 18 GAUGE ZINK COATED MILD STEEL USING DELTA TURBINE'S PATTERN.

3. REMOVAL OF UPPER PORTION OF ORIGINAL HOPPER FROM FUSELAGE STATION-10 (FIREWALL) TO STATION 77 (1" IN FRONT OF GLOVE BOX) AND 3" ABOVE UPPER FUSELAGE LONGERONS IS ACCOMPLISHED IN THE FOLLOWING MANNER:

(A) REMOVE ORIGINAL AIRFRAME AFT FIREWALL 1" ABOVE UPPER ENGINE MOUNTS: ROLL CUT EDGE OF FIREWALL TO FORM A ROLLED EDGE EVEN WITH UPPER ENGINE MOUNTS. RE-POSITION HYD TANK SO TOP OF TANK IS 4" BELOW ROLLED EDGE.

(B) PLACE NEW HOPPER TOP ON ORIGINAL HOPPER, LEVEL AND SQUARE, AND MARK AN INDEX LINE ON OUTSIDE OF OLD HOPPER. LOOKING FROM INSIDE OF OLD HOPPER, DETERMINE WHERE OLD HOPPER AND NEW HOPPER SIDES TOUCH. ON THE INSIDE OF THE OLD HOPPER MARK A LINE 1" ABOVE THE UPPER POINT OF OVERLAP. (THIS SHOULD BE A MINIMUM OF 3" ABOVE UPPER FUSELAGE LONGERONS) REMOVE OLD HOPPER TOP BY CUTTING ON LINE MARKED ON INSIDE OF HOPPER AND ACROSS TOP AT STATION 77 (1" IN FRONT OF GLOVE BOX.)



END OF PAGE ONE OF TWO

no additional sheets are attached

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished
(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

DATE
01/25/05

TACH TIME
4156.7

TOTAL TIME
5153.7

4. CONSTRUCT NEW FWD FIREWALL FRAME AND AFT COWLING SUPPORT FRAME, IN DELTA TURBINE'S JIG, USING 6061 "T" FOR FIREWALL FRAME AND 6061 ANGLE FOR SUPPORT FRAME. CONSTRUCT NEW FIRE WALL FROM 18 GAGUE ZINK COATED MILD STEEL USING DELTA TURBINE'S PATTERN.
5. REMOVE FORWARD FIREWALL FRAME AND INSTALL NEW FRAME AND NEW FIREWALL TO ALIGN WITH NEW HOPPER AND ENGINE NOSE COWLING. ATTACH NEW FRAME AND FIREWALL USING AD RIVETS OR AN3 BOLTS.
6. INSTALL NEW UPPER REAR COWLING SUPPORT FRAME 4" FORWARD OF NEW HOPPER AND IN ALIGNMENT WITH NEW HOPPER AND NEW FORWARD FIREWALL FRAME.
7. CUT EXISTING UPPER REAR COWLING CENTER SUPPORT TO FIT AND RE-INSTALL USING ORIGINAL HARDWARE.
8. FABRICATE NEW UPPER COWLING USING 2024 T3.040.
9. INSTALL ALL CAMLOCKS AND RECEPTACLES USING ORIGINAL SPACINGS.
10. ALL MATERIALS AND HARDWARE TO BE AIRCRAFT QUALITY.
11. WEIGHT INCREASED 10 LBS AT 31.5 ARM.

WEIGHT AND BALANCE CHANGED TO REFLECT THIS INSTALLATION

_____ END OF PAGE TWO OF TWO _____

☐ Additional Sheets Are Attached

FROM :

FAX NO. :

Feb. 22 2005 01:21PM P1

04-15 REV A.

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION		DATE February 22, 2005	
STATEMENT OF COMPLIANCE WITH THE FEDERAL AVIATION REGULATIONS			
AIRCRAFT OR AIRCRAFT COMPONENT IDENTIFICATION			
MAKE PZL-Milec	MODEL NO. M18	TYPE (Airplane, Radio, Helicopter, etc.) Airplane	NAME OF APPLICANT Delta Turbines Inc.
LIST OF DATA			
IDENTIFICATION	TITLE		
Drawing 2005 Revision D Dated 7/11/03	Optional Extended Hopper Installation		
Notes; 1. This approval is for PZL=Milec M18 S/N 12024-25 R/N N2283M only 2. This approval is for the structural aspects of the data listed only and does not include actual work on the airplane			
PURPOSE OF DATA Approval of alteration data			
APPLICABLE REQUIREMENTS (List specific sections) FAR 23.301, 23.203, 23.305, & 23.307			
CERTIFICATION - Under authority vested by direction of the Administrator and in accordance with conditions and limitations of appointment under Part 183 of the Federal Aviation Regulations, data listed above and on attached sheets numbered _____ have been examined in accordance with established procedures and found to comply with applicable requirements of the Federal Aviation Regulations. ☒ Approve of these data			
[REDACTED]		DERJ-710009-SW	Structures
FAA Form 8110-3 (11-70) SUPERSEDES PREVIOUS EDITION			
ELECTRONIC FORMAT (7-00)			



US Department
of Transportation
Federal Aviation
Administration

MAJOR REPAIR AND ALTERATION
(Airframe, Powerplant, Propeller, or Appliance)

Form Approved
OMB No. 2120-0020

For FAA Use Only

Office Identification

711-5025

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. 1421). Failure to report can result in civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act of 1958).

1. Aircraft	Make WSK PZL MIELEC	Model M-18A
	Serial No. 1Z024-25	Nationality and Registration Mark N2283M
2. Owner	Name (As shown on registration certificate) CANAM AVIATORS INC	Address (As shown on registration certificate) 1021 MAIN ST STE 1150 HOUSTON, TX 77002-6508

3. For FAA Use Only

4. Unit Identification				5. Type	
Unit	Make	Model	Serial No.	Repair	Alteration
AIRFRAME	(As described in item 1 above)				X
POWERPLANT					
PROPELLER					
APPLIANCE	Type				
	Manufacturer				

6. Conformity Statement

A. Agency's Name and Address	B. Kind of Agency	C. Certificate No.
DELTA TURBINES INC PO BOX 500 MCGHEE, AR. 71654	☒ U.S. Certificated Mechanic	4315R5366
	☐ Foreign Certificated Mechanic	
	☐ Certificated Repair Station	
	☐ Manufacturer	

I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

Date 01/25/05	Signature of Authorized Individual
-------------------------	--

7. Approval for Return To Service

Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is ☒ APPROVED ☐ REJECTED					
BY	FAA FL Standards Inspector	Manufacturer	☒	Inspection Authorization	Other (Specify)
	FAA Designee	Repair Station		Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection 01/25/05		Certificate or Designation No. 	Signature of Authorized Individual 		

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished
(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

DATE
01/25/05

TACH TIME
4156.7

TOTAL TIME
5153.7

REMOVED HONEYWELL TPE331-10UA ENGINE AND HARTZELL HCB3TN-5/TIO290N PROPELLER. THE ENGINE ATTACHMENT POINTS ON FRONT OF ENGINE MOUNT CHANGED FROM , MOUNT P/N 2001-R, LEFT OFFSET FOR CLOCKWISE TURN ENGINE TO A RIGHT OFFSET FOR COUNTER CLOCKWISE TURN ENGINE, MOUNT P/N 2001-L, SPECIFICATIONS . THIS MODIFICATION CONFORMS TO STC # SA09039SC DRAWING #2001 REV. M. NEW AIR INLET P/N 2002-59, COWLING P/Ns 2002-30, 2002-31, 2002-36R, 2002-36L, 2002-50, AND 2002-51, INSTALLED. STC SA09039SC COVERS BOTH LISTED ENGINE AND PROPELLER INSTALLATIONS. ALL WELDING IS IN ACCORDANCE WITH DELTA TURBINES INC. WELDING PROCESS SPECIFICATION W-1 DATED MAY 9, 1991.

ALL PARTS PRIMED AND PAINTED TO MATCH THE ORIGINAL. HONEYWELL ENGINE, TPE331-11UA-612G, S/R # P44327C, INSTALLED AND CONTROLS RIGGED IN ACCORDANCE WITH HONEYWELL REPORT # 72-01-36 AND STC SA09039SC FLIGHT MANUAL SUPPLEMENT. HARTZELL PROPELLER, HCB5MP-5BL/LM11692M, S/N # EVA2825, INSTALLED AND FLIGHT IDLE BLADE ANGLE SET AT +03.5 DEGREES PER DELTA TURBINES INC. FLIGHT MANUAL SUPPLEMENT. AIRCRAFT WEIGHED. NEW WEIGHT AND BALLANCE INFORMATION PLACED IN THE FLIGHT MANUAL. AIRCRAFT TEST FLOWN AND FOUND TO PERFORM SATISFACTORLY.

-----END-----

☐ Additional Sheets Are Attached

United States Of America
Department of Transportation - Federal Aviation Administration
Supplemental Type Certificate

Number SA09039SC

This Certificate issued to Delta Turbines, Inc.
3104 S. 28th Place Apt 3
Rogers, AR 72758

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of Part 23 of the Federal Aviation Regulations.

Original Product Type Certificate Number: A47EU

Make: PZL MIELEC

Model: M18, M18A, M18B

Description of Type Design Change:

Installation of the AlliedSignal TPE331-10U engine with the Hartzell Model HC-B4TN-5NL/LT10890N propeller, or the installation of the AlliedSignal TPE331-10UA engine with either the Hartzell Model HC-B3TN-5/T10282 or HC-B3TN-5U/T10290N propeller; or the installation of either the AlliedSignal TPE331-11U-612G or TPE331-12UA-701G engine with the Hartzell Model HC-B5MP-5BL/LM11692N propeller in accordance with Delta Turbines Drawing List, dated November 11, 2002, or later FAA approved revisions.

Limitations and Conditions:

(See continuation sheet 3 of 3)

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application: November 01, 1993

Date reissued: February 26, 2007

Date of issuance: December 19, 1995

Date amended: 8/6/97; 7/15/99; 12/30/02



By direction of the Administrator

(Signature)

S. Frances Cox, Manager
Special Certification Office,
Southwest Region

(Title)

United States Of America
Department of Transportation - Federal Aviation Administration
Supplemental Type Certificate
(Continuation Sheet)

United States Of America
Department of Transportation - Federal Aviation Administration
Supplemental Type Certificate
(Continuation Sheet)

Number SA09039SC

Date of Issuance: December 19, 1995

Date Amended: December 30, 2002

Reissuance Date: February 26, 2007

Limitations and Conditions (Continued):

The installer must determine whether this design change is compatible with previously approved modifications. If the holder agrees to permit another person to use this certificate to alter a product, the holder must give the other person written evidence of that permission.

1. With either the TPE331-10UA or TPE331-10U engine, Airplane Flight Manual Supplement (AFMS) dated 12/6/1995, or AFMS dated 6/25/1997, or later FAA approved revision is required.
2. With the TPE331-11U-612G or TPE331-12UA-701G engines, AFMS dated 6/10/1999, or later FAA approved revision is required.
3. Propeller shaft power is limited to 840 horsepower or 2206 foot-pounds of torque for the TPE331-10UA engine.
4. Propeller shaft power is limited to 900 horsepower or 2972 foot-pounds of torque for the TPE331-10U engine.
5. Propeller shaft power is limited to 1000 horsepower or 3301 foot-pounds of torque for the TPE331-11U-612G or TPE331-12UA-701G engines.
6. With the spray bars installed, the gross weight limit is 9,260 pounds.
7. With the spreader installed, the gross weight limit is 8,800 pounds.
8. STC Number SA09063SC, the installation of geared tabs on ailerons, elevator, and vertical tail is required.
9. The airplane altitude ceiling is limited to 8,000 feet above sea level.
10. Flight into visible moisture below an air temperature of 40°F or 5°C is prohibited.
11. The Hartzell Model HC-B5MP-5BL/LM11692N propeller diameter limits are 118.7 to 118.2 inches.
12. The Hartzell Model HC-B4TN-5NL/LT1089N propeller diameter limits are 109.5 to 107.5 inches.

END