N53RD

1981 Cessna Citation I

RH Engine Logbook

SMOH | 76361

2001 - 2024

MSN: 500-0415

Prepared by the worldwide aviation specialists at RidgeAire, Inc.

JT15D Series Borescope Report

Customer:	Work Order #:	Order/Task:	Date:	Tech:
RidgeAire	N53RD	Engine BSI	3 June 2024	George Salazar

Model:	Serial: RH	TSN:	CSN:	TSO:	CSO:
JT15D-1A	PC-E76361	UNK	UNK	UNK	UNK

Engine Installation and Condition on Arrival:

Engine SN PC-E76361 is installed in #2 position of Citation 500, N53RD, SN 500-415. Engine is in service.

INSPECTION POINT:	FINDINGS:
Inlet and Fan:	Dirty, No discrepancies noted at this time
Boost Rotor:	N/A
Stator Vane:	N/A
Inlet and Impeller:	No discrepancies noted at this time
Diffuser Tubes:	No discrepancies noted at this time
Deflector Segments/Ring:	N/A
Combustion Liner:	No discrepancies noted at this time
Small Exit Duct:	Erosion & Buckling
HT Stator:	Outer wall crack radially, axially into Airfoil
HT Blades:	Blade's look good, however not much left on the tips
HT Segments:	Evidence of rub
1st Stage LT Blades:	No discrepancies noted at this time
2nd Stage LT Blades:	No discrepancies noted at this time
#4 Bearing Housing:	No discrepancies noted at this time

GENERAL INSPECTION:	FINDINGS:
Engine Installation:	Normal
State of Preservation:	N/A

Additional Information:

Cracks exceeding .020 gap must be repaired, as of inspection, your good to continue service

JT15D Series Borescope Report

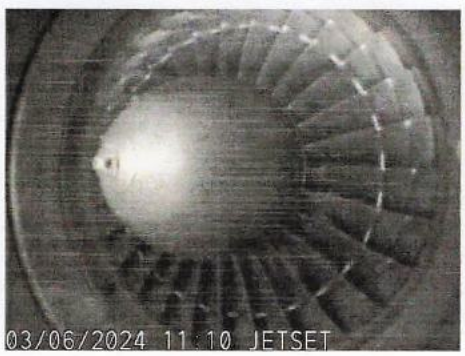
Customer:	Work Order #:	Order/Task:	Date:	Tech:
RidgeAire	N53RD	Engine BSI	3 June 2024	George Salazar

Model:	Serial: RH	TSN:	CSN:	TSO:	CSO:
JT15D-1A	PC-E76361	UNK	UNK	UNK	UNK

Aircraft Registration No.

Airframe Data Plate

Engine Data Plate



Low Compressor (Fan)

Low Compressor (Fan)

Low Compressor (Fan)

Low Compressor (Fan)

Low Compressor (Booster)

Inlet Sensor

JT15D Series Borescope Report

Customer:	Work Order #:	Order/Task:	Date:	Tech:
RidgeAire	N53RD	Engine BSI	3 June 2024	George Salazar

Model:	Serial: RH	TSN:	CSN:	TSO:	CSO:
JT15D-1A	PC-E76361	UNK	UNK	UNK	UNK

High Compressor (Impeller)

High Compressor (Impeller)

High Compressor (Impeller)

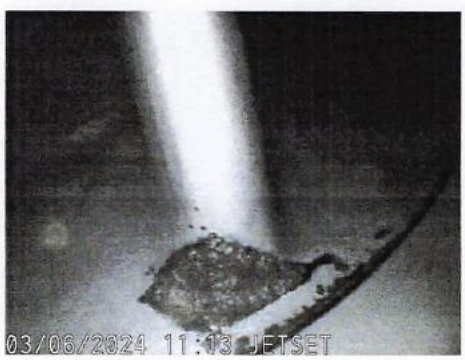
High Compressor (Impeller)

High Compressor (Impeller)

High Compressor (Impeller)

Diffuser Tubes

Diffuser Tube



Inlet Coating Loss

JT15D Series Borescope Report

Customer:	Work Order #:	Order/Task:	Date:	Tech:
RidgeAire	N53RD	Engine BSI	3 June 2024	George Salazar

Model:	Serial: RH	TSN:	CSN:	TSO:	CSO:
JT15D-1A	PC-E76361	UNK	UNK	UNK	UNK

S.E.D. and H.T. Stator

S.E.D. and H.T. Stator

S.E.D. and H.T. Stator

S.E.D. and H.T. Stator

Combustion Chamber Liner

Combustion Chamber Liner

Combustion Chamber Liner

Combustion Chamber Liner

Aft Side of H.T. Blades

JT15D Series Borescope Report

Customer:	Work Order #:	Order/Task:	Date:	Tech:
RidgeAire	N53RD	Engine BSI	3 June 2024	George Salazar

Model:	Serial: RH	TSN:	CSN:	TSO:	CSO:
JT15D-1A	PC-E76361	UNK	UNK	UNK	UNK

H.T. Blades and Segments

H.T. Blades and Segments

H.T. Blades and Segments

1st Stage Low Turbine Blades

2nd Stage Low Turbine Blades

HT Airfoil Crack

HT Vane Outer Wall Crack

HT Vane Outer Wall Crack

HT Vane Outer Wall Crack

USA034R2

WINNER AVIATION®

Repair Station #: W6NR985J

November 27, 2019

Registration #: N53RD
Manufacturer: Cessna
Part/Model number: 500
Work Order No: JET7967

Total AC Time: 7,876.0
Aircraft Serial Number: 5000415
Date: 11/27/2019

Total AC Cycles: 7,923

Squawk

1.1	COMPLIED WITH INCOMING PERFORMANCE RUN AS REQUIRED IAW CESSNA 500 AMM AND P&W JT15D-1 EMM.
1.2	COMPLIED WITH PRISM CHECK OF COCKPIT ACRYLIC WINDOW WITH SATISFACTORY RESULTS IAW CESSNA500 SERIES MM 56.
1.3	PERFORMED AVIONICS FUNCTIONAL CHECKS PER AC43.13-1B, CH 12 AND MFG MM, DISCREPANCIES NOTED AND GIVEN TO CUSTOMER
1.4	COMPLIED WITH BORESCOPE INSPECTION OF LEFT AND RIGHT ENGINES AS REQUIRED IAW P&W JT15D-1 EMM.
1.5	TOPPED OFF AIRCRAFT AND CHECKED FOR FUEL LEAKS, ALL CHECKED GOOD AT THIS TIME, ALL WORK ACCOMPLISHED IAW CESSNA 500 SERIES MM, CH 12 AND 28.
1.6	COMPLIED WITH IN-FLIGHT PRESSURIZATION CHECK ON CHECK FLIGHT OF AIRCRAFT, FLEW AIRCRAFT UP TO FL250, ALL CHEKS GOOD AT THIS TIME, ALL WORK ACCOMPLISHED IAW STANDARD PRACTICES AND AIRCRAFT FLIGHT MANUAL.
1.7	TESTED, TROUBLESHOT, REMOVED PILOTS RMI AND BENCH CHECKED, UNIT CHECKED GOOD, FOUND RMI INDICATOR NOT RECEIVING 28VDC, LOCATED BLOWN FUSE IN RIGHT SIDEWALL, REPLACED FUSE, OPERATIONAL CHECKED GOOD, ALL WORK ACCOMPLISHED IAW COLLINS RMI-30 MM.
1.8	CONFIRMED ELECTROLUMINESCENSE LIGHTS ON CENTER PEDESTAL INOPERATIVE, TROUBLESHOT, REMOVED AND REPLACED DEFECTIVE E.L. LIGHTING INVERTER WITH OVERHAULED EXCHANGE UNIT P/N EM2044-1EX, OPERATIONAL CHECKED GOOD, ALL WORK ACCOMPLISHED IAW CESSNA WIRING PRINTS, CH33-10-06.

All Work Performed I.A.W. Cessna 500 Appropriate Data.

These items identified above were repaired and/or inspected in accordance with current Federal Aviation Regulations and the repairs are approved for return to service. Pertinent details of these repairs are on file at the repair station under Work Order Number JET7967.

Signature
For Winner Aviation Repair Station #W6NR985J

1. Approving Civil Aviation Authority/Country: **FAA/United States**

2. # AUTHORIZED RELEASE CERTIFICATE
FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG

3. Form Tracking Number: **130109A**

4. Organization Name and Address:
Electromech Technologies, LLC
2600 S. Custer
Wichita, KS 67217
(PX2R099L)

5. Work Order/Contract/Invoice Number: **2852323**

6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:
1	VARIABLE OUTPUT INVERTER	EM2044-1	1	1999A	OVERHAULED

12. Remarks:

REPLACE NAMEPLATE. CHEMFILM BASE AND CASE. FUNCTION TESTED PER ATP 2044, REV C, 11/30/05.

THIS FAA FORM 8130-3 CORRECTS THE ERROR (WRONG SN) IN BLOCK 10 OF THE FAA FORM 8130-3 130109 DATED 07 FEB, 2019 AND DOES NOT COVER CONFORMITY/CONDITION/RELEASE TO SERVICE.

OVERHAUL LIMITED TO APPROVED MAINTENANCE DATA TITLED EM2044-1 AMT REV B DATED 02/19/13

Certifies that the work specified in block 11/12 was carried out in accordance with EASA part 145 and with respect to that work, the aircraft component is considered ready for release to service under EASA Approval Number EASA.145.5012.

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.

13b. Authorized Signature:

13c. Approval/Authorization No.:

13d. Name (Typed or Printed)

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

14a [x] **14 CFR 43.9 Return to Service.** [x] **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.

14b. Authorized Signature: Mary Lurinda Carpenter

14c. Approval/Certificate No.: **PX2R099L (RS)**

14d. Name (Typed or Printed): Mary Lurinda Carpenter

14e. Date (dd/mmm/yyyy): 25 MAR 2019

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

Electromech Technologies

2600 S. CUSTER
WICHITA, KS 67217
PHONE: 316-941-0400

FAA REPAIR STATION PX2R099L

TEARDOWN AND PRELIMINARY INSPECTION REPORT

JOB # AM130109 **ELECTROMECH P/N** EM2044-1 **S/N** 1999A **DATE** 1/30/19

CUSTOMER Textron Aviation **CUSTOMER P/N** **TECHNICIAN** OVH 33

CUSTOMER STATED DISCREPANCY OR REQUEST

OVERHAUL

TECHNICIAN'S EVALUATION OF UNIT

CONDITION OF UNIT

THE BASE AND CASE ARE SCRATCHED UP.

EVALUATE CUSTOMER DISCREPANCY & RECORD RESULTS

ACTIONS REQUIRED TO ADDRESS CUSTOMER ISSUE

ACTIONS REQUIRED TO RETURN UNIT TO SERVICE

CHEMFILM THE BASE AND CASE. REPLACE THE NAMEPLATE.

WORK TO BE PERFORMED

OVERHAUL ☒ REPAIR ☐ INSPECT ☐ UPDATE ☐

MAJOR COMPONENTS TO BE REPLACED OR REPAIRED

☐ Bearings	☐ Housing	☐ Sensor	☐ Valve Body
☐ Brushes	☐ Gears	☐ Impeller	☐ Elec. Connector
☐ Brush Guide	☐ Cover Can	☐ Limit Switch	☐ Misc. Electronics
☐ Comm. End Bell	☐ Baseplate	☐ Moveable Tube	☒ Cosmetic Items
☐ Drive End Bell	☐ Brake Magnet	☐ Acme Shaft	☐ RFI Filter
☐ Field Hsg. / Stator	☐ Brake Disc	☐ Relief Valve	
☐ Armature / Rotor	☐ Brake Arm. Plate	☐ Body Seal	☐ NO PARTS REQ.

Electromech Technologies

2600 S. CUSTER
WICHITA, KS 67217
PHONE: 316-941-0400

JOB # AM130109

PART # EM2044-1

SERIAL # 1999A

SPECIAL INSTRUCTIONS AND CUSTOMER SPECIFIED DEVIATIONS

APPLICABLE DOCUMENTS

OVERHAUL MANUAL	REV	DATE
DER REPAIR SPEC.	REV	DATE
MAINTENANCE DATA EM2044-1 AMT	REV B	DATE 02/19/13
FAA AIRWORTHINESS DIRECTIVE (AD)	YES	NO X
EASA AIRWORTHINESS DIRECTIVE (AD)	YES	NO X
SERVICE BULLETINS	YES	NO X
LIFE LIMITED ITEM	YES	NO X

UPDATE/MOD INFORMATION

FROM PART # _____

TO PART # _____

SERIAL NUMBER INFORMATION

OLD SERIAL # _____

NEW SERIAL # _____

Electromech Technologies

ENCORE™

2600 S. Custer
Wichita, KS 67217
www.electromech.com

Phone: 316-941-0400
Fax: 316-941-0473

TEXTRON AVIATION
7121 SOUTHWEST BOULEVARD
DOCK 2-4
WICHITA KS 67215
UNITED STATES

Our Sales Order: 130109
Our Packing Slip: 154454, line 1
Our Part: EM2044-1
Revision: F
VARIABLE OUTPUT INVERTER
Ship Date: 02/07/2019
Quantity: 1

Your PO: 2852323
Your Part: EM2044-1
Your Revision: F

Serial Number(s):
1999A

Tracked Items

- CERTIFICATE OF CONFORMANCE -

WE HEREBY CERTIFY THESE PARTS TO CONFORM TO ALL APPLICABLE BLUEPRINTS, SPECIFICATIONS AND PURCHASE ORDER REQUIREMENTS.

THIS IS TO CERTIFY THAT ALL WORKMANSHIP PERTAINING TO, AND ALL MATERIALS PURCHASED AND FURNISHED BY ELECTROMECH TECHNOLOGIES (FSCM NO. 54395) FOR USE IN THE MANUFACTURE OF APPLICABLE PARTS ARE IN ACCORDANCE WITH ALL APPLICABLE DRAWINGS AND SPECIFICATIONS.

THE ENCLOSED PARTS HAVE BEEN INSPECTED AND FOUND TO BE IN COMPLIANCE WITH ENGINEERING DRAWINGS AND IN ACCORDANCE WITH ALL SPECIFICATIONS. CONFORMANCE DATA IS ON FILE FOR REVIEW UPON REQUEST.

THANK YOU

Lurinda Carpenter
LURINDA CARPENTER
Q.C. INSPECTOR

TEXTRON AVIATION

Maintenance Transaction Record

CAMP MTR ID # 2992078

cescom

This Maintenance Report is To Be Used Solely For (Check One)

☑ Airframe Entries ☐ Eng.#1 Serial No. _____ ☐ Eng.#2 Serial No. _____ ☐ APU Serial No. _____

Aircraft Identification and Status

A/C Serial #	A/C Unit #	A/C Registration #	Date	City ID	Total A/C Hours	Total A/C Landings	Engine 1 Ttl Hrs	Engine 2 Ttl Hrs	Engine 1 Ttl Cycles	Engine 2 Ttl Cycles	APU Hrs	APU Events	Freon Hrs
500-0415	0629	N53RD	15-Apr-2019	KYNG	7870.3	7915	6546	10042.3	6404	8497			0

Component Changes, Inspections, Service Bulletins, or Airworthiness Directives Accomplished

Item	Transaction No.	Type	Item Name	Position	Part Number / Alternate Part	Mod Level	Part Serial	Removal Reason	Installed Part Status	Installed Part TSN/TSO/TSR	Material Costs	Man Hours
052010C	1	2	INSPECT RIGHT SIDE WINDOW INSPECTION	RIGHT								
	Comments:											
057110	2	2	NO. 1 ENGINE - MINOR INSPECTION									
	Comments:											
057110	3	2	NO. 2 ENGINE - MINOR INSPECTION									
	Comments:											
5-12-01	4	2	PHASE 1 INSPECTION									
	Comments:											
5-12-02	5	2	PHASE 2 INSPECTION									
	Comments:											
5-12-03	6	2	PHASE 3 INSPECTION									
	Comments:											
5-12-04	7	2	PHASE 4 INSPECTION									
	Comments:											
741030	8	2	NO. 1 ENGINE - VISUAL INSPECT LOWER IGNITION EXCITER	LOWER	10-381550-2		9537R014C					
	Comments:											
741030	9	2	NO. 1 ENGINE - VISUAL INSPECT UPPER IGNITION EXCITER	UPPER	10-381550-2H		26290					
	Comments:											
741030	10	2	NO. 2 ENGINE - VISUAL INSPECT LOWER IGNITION EXCITER	LOWER	10-381550-2A		BA17193					
	Comments:											

Trans Type: 1 - Component, 2 - Inspection, 3 - SB, 4 - AD, – Misc.

Removal Reasons: WO - Worn to Limits, SC - Scheduled, UN - Unscheduled, CO - Convenience, N - Other(note in comments)

Installed Part Status: N - New, R - Repaired / Rebuilt, S - Serviceable, O - Overhauled, T - Tested, M - Modified, I - Inspected

Repair Facility WINNER AVIATION **Certified Repair Station Number** W6NR985J **Work Order No.** JET7751

Work Performed By WINNER AVIATION **Certificate No.** W6NR985J **Date** 15-Apr-2019

I certify that the above stated maintenance and/or inspection was performed in accordance with the current regulations of the

☑ Federal Aviation Administration ☐ Other (Specify) _____ and

WAS DETERMINED TO BE IN AIRWORTHY CONDITION WITH RESPECT TO THE WORK PERFORMED AND IS APPROVED FOR RETURN TO SERVICE.

Work Inspected By ROBERT J CELLARS **Certificate No.** W6NR985J **Date** 15-Apr-2019

Pertinent details of this maintenance are on file at our facility under the above Work/Service Order Number as applicable.

Maintenance Log	
Section	Page

TEXTRON AVIATION

Maintenance Transaction Record

CAMP MTR ID # 2992078

cescom

This Maintenance Report is To Be Used Solely For (Check One)

☑ Airframe Entries ☐ Eng.#1 Serial No. _____ ☐ Eng.#2 Serial No. _____ ☐ APU Serial No. _____

Aircraft Identification and Status

A/C Serial #	A/C Unit #	A/C Registration #	Date	City ID	Total A/C Hours	Total A/C Landings	Engine 1 Ttl Hrs	Engine 2 Ttl Hrs	Engine 1 Ttl Cycles	Engine 2 Ttl Cycles	APU Hrs	APU Events	Freon Hrs
500-0415	0629	N53RD	15-Apr-2019	KYNG	7870.3	7915	6546	10042.3	6404	8497			0

Component Changes, Inspections, Service Bulletins, or Airworthiness Directives Accomplished

Item	Transaction No.	Type	Item Name	Position	Part Number / Alternate Part	Mod Level	Part Serial	Removal Reason	Installed Part Status	Installed Part TSN/TSO/TSR	Material Costs	Man Hours
741030	11	2	NO. 2 ENGINE - VISUAL INSPECT UPPER IGNITION EXCITER	UPPER								
	Comments:											
B243003	12	2	FUNCTIONAL CHECK BATTERY LEAD ACID BATTERY (CAPACITY CHECK): PHASE 54 INSPECTION		RG-380E/44		40775641					
	Comments:											
B326003	13	2	HYDROSTATIC TEST EMERGENCY GEAR AIR BOTTLE		111974-2		2935					
	HYDRO CHECK Date: 12-Feb-2019 Comments:											
5-12-55	14	2	PHASE 55 INSPECTION									
	Comments: N/A No Thrust Reversers installed.											
742010	15	1	NO. 1 ENGINE - OUTBOARD IGNITER PLUG	OUTBOARD	FHE-246-4		NSN	WO	N	0 MTH 0 HRS		
	Comments: Removed part no: FHE-246-4 Removed serial no: NSN.											
742020	16	1	NO. 2 ENGINE - INBOARD IGNITER PLUG	INBOARD	FHE-246-4		NSN	UN	N	0 MTH 0 HRS		
	Comments: Removed part no: FHE-246-4 Removed serial no: NSN.											
742020	17	1	NO. 1 ENGINE - INBOARD IGNITER PLUG	INBOARD	FHE-246-4		NSN	WO	N	0 MTH 0 HRS		
	Comments: Removed part no: FHE-246-4 Removed serial no: NSN.											
742030	18	1	NO. 2 ENGINE - SHORT IGNITER LEAD	SHORT	53067-21		NSN	UN	N	0 MTH 0 HRS		
	Comments: Removed part no: 10-395428-2 Removed serial no: SN-UNKNOWN.											
561001	19	1	LEFT MAIN WINDSHIELD ASSY, (LH)	LEFT MAIN	9912064-15		10152	UN	N	0 MTH 0 HRS		
	Comments: Removed part no: CES-001701 Removed serial no: 719028.											

Trans Type: 1 - Component, 2 - Inspection, 3 - SB, 4 - AD, – Misc.

Removal Reasons: WO - Worn to Limits, SC - Scheduled, UN - Unscheduled, CO - Convenience, N - Other(note in comments)

Installed Part Status: N - New, R - Repaired / Rebuilt, S - Serviceable, O - Overhauled, T - Tested, M - Modified, I - Inspected

Repair Facility WINNER AVIATION **Certified Repair Station Number** W6NR985J **Work Order No.** JET7751

Work Performed By WINNER AVIATION **Certificate No.** W6NR985J **Date** 15-Apr-2019

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WAS DETERMINED TO BE IN AIRWORTHY CONDITION WITH RESPECT TO THE WORK PERFORMED AND IS APPROVED FOR RETURN TO SERVICE.

Work Inspected By ROBERT J CELLARS **Certificate No.** W6NR985J **Date** 15-Apr-2019

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Maintenance Log	
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TEXTRON AVIATION

Maintenance Transaction Record

CAMP MTR ID # 2992078

cescom

This Maintenance Report is To Be Used Solely For (Check One)

☑ Airframe Entries ☐ Eng.#1 Serial No. _____ ☐ Eng.#2 Serial No. _____ ☐ APU Serial No. _____

Aircraft Identification and Status

A/C Serial #	A/C Unit #	A/C Registration #	Date	City ID	Total A/C Hours	Total A/C Landings	Engine 1 Ttl Hrs	Engine 2 Ttl Hrs	Engine 1 Ttl Cycles	Engine 2 Ttl Cycles	APU Hrs	APU Events	Freon Hrs
500-0415	0629	N53RD	15-Apr-2019	KYNG	7870.3	7915	6546	10042.3	6404	8497			0

Component Changes, Inspections, Service Bulletins, or Airworthiness Directives Accomplished

Item	Transaction No.	Type	Item Name	Position	Part Number / Alternate Part	Mod Level	Part Serial	Removal Reason	Installed Part Status	Installed Part TSN/TSO/TSR	Material Costs	Man Hours
2992078020	20	1	SAFETY CABLE		26A429-17		NSN		N	0 MTH 0 HRS		
	Comments: REMOVED AND REPLACED FRAYED BLEED AIR FLEX JOINT SAFETY CABLE AT ACM IAW CESSNA 500 MM CH 21											
2992078021	21	1	HEAT SHIELD	RIGHT	5004548		NSN		N	0 MTH 0 HRS		
	Comments: REMOVED AND REPLACED RIGHT MLG HEAT SHIELD IAW CESSNA 500 AMM											
2992078022	22	1	G-SWITCH		7607-2-000		NSN		N	0 MTH 0 HRS		
	Comments: REMOVED AND REPLACED FAULTY EMERGENCY EXIT LIGHTING SYSTEM G-SWITCH IAW CESSNA 500 AMM 33-50-00											
2992078023	23	1	STATIC DISCHARGER	LEFT	15340		NSN		N	0 MTH 0 HRS		
	Comments: REMOVED AND REPLACED LEFT WING TIP STATIC DISCHARGER IAW CESSNA 500 AMM 23-60-00											
2992078024	24	-	STAB DEICE BOOTS									
	Comments: REPAIRED SEVERAL MINOR CUTS AND PINHOLES IN LEFT AND RIGHT HORIZONTAL STAB DEICE BOOTS AS REQUIRED IAW GOODRICH DEICING AND SPECIALTY PNEUMATIC DEICER INSTALLATION, MAINTENANCE AND REPAIR MANUAL 30-10-31											

Trans Type: 1 - Component, 2 - Inspection, 3 - SB, 4 - AD, – Misc.

Removal Reasons: WO - Worn to Limits, SC - Scheduled, UN - Unscheduled, CO - Convenience, N - Other(note in comments)

Installed Part Status: N - New, R - Repaired / Rebuilt, S - Serviceable, O - Overhauled, T - Tested, M - Modified, I - Inspected

Repair Facility WINNER AVIATION **Certified Repair Station Number** W6NR985J **Work Order No.** JET7751

Work Performed By WINNER AVIATION **Certificate No.** W6NR985J **Date** 15-Apr-2019

I certify that the above stated maintenance and/or inspection was performed in accordance with the current regulations of the

☑ Federal Aviation Administration ☐ Other (Specify) _____ and

WAS DETERMINED TO BE IN AIRWORTHY CONDITION WITH RESPECT TO THE WORK PERFORMED AND IS APPROVED FOR RETURN TO SERVICE.

Work Inspected By ROBERT J CELLARS **Certificate No.** W6NR985J **Date** 15-Apr-2019

Pertinent details of this maintenance are on file at our facility under the above Work/Service Order Number as applicable.

Maintenance Log	
Section	Page

TEXTRON AVIATION

Maintenance Transaction Record

CAMP MTR ID # 2995795

cescom

This Maintenance Report is To Be Used Solely For (Check One)

☐ Airframe Entries ☑ Eng.#1 Serial No. PCE-77347 ☐ Eng.#2 Serial No. _____ ☐ APU Serial No. _____

Aircraft Identification and Status

A/C Serial #	A/C Unit #	A/C Registration #	Date	City ID	Total A/C Hours	Total A/C Landings	Engine 1 Ttl Hrs	Engine 2 Ttl Hrs	Engine 1 Ttl Cycles	Engine 2 Ttl Cycles	APU Hrs	APU Events	Freon Hrs
500-0415	0629	N53RD	15-Apr-2019	KYNG	7870.3	7915	6546	10042.3	6404	8497			0

Component Changes, Inspections, Service Bulletins, or Airworthiness Directives Accomplished

Item	Transaction No.	Type	Item Name	Position	Part Number / Alternate Part	Mod Level	Part Serial	Removal Reason	Installed Part Status	Installed Part TSN/TSO/TSR	Material Costs	Man Hours
057110	1	2	NO. 1 ENGINE - MINOR INSPECTION									
	Comments:											
741030	2	2	NO. 1 ENGINE - VISUAL INSPECT LOWER IGNITION EXCITER	LOWER	10-381550-2		9537R014C					
	Comments:											
741030	3	2	NO. 1 ENGINE - VISUAL INSPECT UPPER IGNITION EXCITER	UPPER	10-381550-2H		26290					
	Comments:											
742010	4	1	NO. 1 ENGINE - OUTBOARD IGNITER PLUG	OUTBOARD	FHE-246-4		NSN	WO	N	0 MTH 0 HRS		
	Comments: Removed part no: FHE-246-4 Removed serial no: NSN.											
742020	5	1	NO. 1 ENGINE - INBOARD IGNITER PLUG	INBOARD	FHE-246-4		NSN	WO	N	0 MTH 0 HRS		
	Comments: Removed part no: FHE-246-4 Removed serial no: NSN.											

Trans Type: 1 - Component, 2 - Inspection, 3 - SB, 4 - AD, – Misc.

Removal Reasons: WO - Worn to Limits, SC - Scheduled, UN - Unscheduled, CO - Convenience, N - Other(note in comments)

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Repair Facility WINNER AVIATION **Certified Repair Station Number** W6NR985J **Work Order No.** JET7751

Work Performed By WINNER AVIATION **Certificate No.** W6NR985J **Date** 15-Apr-2019

I certify that the above stated maintenance and/or inspection was performed in accordance with the current regulations of the

☑ Federal Aviation Administration ☐ Other (Specify) _____ and

THE AIRCRAFT IDENTIFIED ABOVE IS PRESENTLY AIRWORTHY AND APPROVED FOR RETURN TO SERVICE.

Work Inspected By ROBERT J CELLARS **Certificate No.** W6NR985J **Date** 15-Apr-2019

Pertinent details of this maintenance are on file at our facility under the above Work/Service Order Number as applicable.

Maintenance Log	
Section	Page

TEXTRON AVIATION

Maintenance Transaction Record

CAMP MTR ID # 2995801

cescom

This Maintenance Report is To Be Used Solely For (Check One)

☐ Airframe Entries ☐ Eng.#1 Serial No. _____ ☑ Eng.#2 Serial No. PCE-76361 ☐ APU Serial No. _____

Aircraft Identification and Status

A/C Serial #	A/C Unit #	A/C Registration #	Date	City ID	Total A/C Hours	Total A/C Landings	Engine 1 Ttl Hrs	Engine 2 Ttl Hrs	Engine 1 Ttl Cycles	Engine 2 Ttl Cycles	APU Hrs	APU Events	Freon Hrs
500-0415	0629	N53RD	15-Apr-2019	KYNG	7870.3	7915	6546	10042.3	6404	8497			0

Component Changes, Inspections, Service Bulletins, or Airworthiness Directives Accomplished

Item	Transaction No.	Type	Item Name	Position	Part Number / Alternate Part	Mod Level	Part Serial	Removal Reason	Installed Part Status	TSN/TSO/TSR	Material Costs	Man Hours
741030	1	2	NO. 2 ENGINE - VISUAL INSPECT LOWER IGNITION EXCITER	LOWER	10-381550-2A		BA17193					
	Comments:											
741030	2	2	NO. 2 ENGINE - VISUAL INSPECT UPPER IGNITION EXCITER	UPPER								
	Comments:											
057110	3	2	NO. 2 ENGINE - MINOR INSPECTION									
	Comments:											
742020	4	1	NO. 2 ENGINE - INBOARD IGNITER PLUG	INBOARD	FHE-246-4		NSN	WO	N	0 MTH 0 HRS		
	Comments: Removed part no: FHE-246-4 Removed serial no: NSN.											
742030	5	1	NO. 2 ENGINE - SHORT IGNITER LEAD	SHORT	53067-21		NSN	WO	N	0 MTH 0 HRS		
	Comments: Removed part no: 10-395428-2 Removed serial no: SN-UNKNOWN.											

Trans Type: 1 - Component, 2 - Inspection, 3 - SB, 4 - AD, – Misc.

Removal Reasons: WO - Worn to Limits, SC - Scheduled, UN - Unscheduled, CO - Convenience, N - Other(note in comments)

Installed Part Status: N - New, R - Repaired / Rebuilt, S - Serviceable, O - Overhauled, T - Tested, M - Modified, I - Inspected

Repair Facility WINNER AVIATION **Certified Repair Station Number** W6NR985J **Work Order No.** JET7751

Work Performed By WINNER AVIATION **Certificate No.** W6NR985J **Date** 15-Apr-2019

I certify that the above stated maintenance and/or inspection was performed in accordance with the current regulations of the

☑ Federal Aviation Administration ☐ Other (Specify) _____ and

WAS DETERMINED TO BE IN AIRWORTHY CONDITION WITH RESPECT TO THE WORK PERFORMED AND IS APPROVED FOR RETURN TO SERVICE.

Work Inspected By ROBERT J CELLARS **Certificate No.** W6NR985J **Date** 15-Apr-2019

Pertinent details of this maintenance are on file at our facility under the above Work/Service Order Number as applicable.

Maintenance Log	
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1. Approving Civil Aviation Authority/Country:	2.	3. Form Tracking Number:
FAA/UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG	**382114**

4. Organization Name and Address.	5. Work Order, Contract or Invoice Number:
Aerospace Turbine Rotables Inc. **1919 E. Northern St** **Wichita, KS 67216-2430** **US** **Ph: (316) 943-6100, Fax: (316) 943-2917** FAA Approval Holder: NV2R045L	**WO135688**

6. Item	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:
1	Pneumatic Reservoir	9912103-3 212940-2	1.00	2935	INSPECTED

12. REMARKS

Inspected and certified IAW the documents listed.
Full details of work performed held on work order.

Manuals Used:
Manual ID: 510854, Type: DCN, Rev: L, Rev Date: 3/29/1995; Manual ID: 212940, Type: DWG, Rev: L, Rev Date: 4/14/1995; Manual ID: 42000100, Type: DWG, Rev: C, Rev Date: 5/17/1985; Manual ID: 9912103-DWG, Type: DWG, Rev: J, Rev Date: 7/22/1982; Manual ID: 9912103-SCD, Type: SCD, Rev: J & L, Rev Date: 5/15/1973; Manual ID: 9914099, Type: SCD, Rev: J, Rev Date: 10/21/1991

"Certifies that the work specified in Block 11/12 was carried out in accordance with EASA Part 145 and in respect to that work the component is considered ready for release to service under EASA Part 145 approval number EASA.145.4033."

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. [X] 14 CFR 43.9 Return to Service [X] 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:
		Jake Clasen	NV2R045L
13d. Name (Typed or Printed):	**13e. Date (dd/mmm/yyy)**	**14d. Name (Typed or Printed):**	**14e. Date (dd/mmm/yyyy):**
		Jake Clasen	12/Feb/2019

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.

AEROSPACE TURBINE ROTABLES, INC.

1919 E. Northern St
Wichita, Ks 67216-2430, US
FAA Certified Repair Station No. NV2R045L, EASA.145.4033
Ph: (316) 943-6100, Fax: (316) 943-2917

Work Order

W/O Number: WO135688

Printed: 2/11/2019 11:12:47 AM Page#: Page 1 of 4

Bill To: 15670 Phone #: 330-856-5000
WINNER AVIATION CORPORATION
1453 YOUNGSTOWN KINGSVILLE RD
YOUNGSTOWN-WARREN REGIONAL AIRPORT
VIENNA, OH 44473
UNITED STATES

Ship To: 15670
WINNER AVIATION CORPORATION
1453 YOUNGSTOWN KINGSVILLE RD
YOUNGSTOWN-WARREN REGIONAL AIRPORT
VIENNA, OH 44473
UNITED STATES

Part No: 9912103-3	**Qty:** 1	**Refno:** 19-00295	**Line Item#:**
Cust PN: 212940-2	**Mfg:** CESSNA	**Ship Acct#:** 435097	**MR#:**
Descr: Pneumatic Reservoir	**Mfg SN:**	**Dist/Dealer:**	**DPAS Rating:**
SN: 2935	**Terms:** CREDIT CARD	**Department:** Hydro	**Container:** 03109
Work Type: INSP LIFE LIMITS (Hydro)			

Important Information -

Date Received: 2/11/2019 **Need Date: 02/12/2019**

Shipping Method: UPS 2ND DAY AIR

Evaluation -

Date Evaluated:

Findings:

Work Order Comments -

AEROSPACE TURBINE ROTABLES, INC.

1919 E. Northern St
Wichita, Ks 67216-2430, US
FAA Certified Repair Station No. NV2R045L, EASA.145.4033
Ph: (316) 943-6100, Fax: (316) 943-2917

Work Order

W/O Number: WO135688

RECEIVING INSPECTION	Perform receiving inspection, examine for obvious damage, verify part number/serial number, attach appropriate documents, and generate work order.		
Start: 1183191S	Signature/Stamp: ***Performed by AeTR Receiving***		Complete: 1183191C
PRELIMINARY INSPECTION, HIDDEN DAMAGE INSPECTION & TEARDOWN	Perform preliminary inspection JS, hidden damage inspection JS, disassembly & cleaning JS.		
Start: 1183192S	Signature/Stamp: 184 2-12-19		Complete: 1183192C
NDT XRAY	~~X-Ray~~ if required.		
Start: 1183193S	Signature/Stamp: Jake Clasen N/A FEB 1 2 2019 (Parts details can be found on the Bill of Material page)		Complete: 1183193C
REQUALIFICATION	Submit to DOT station for hydrostatic testing if required		
Start: 1183194S	Signature/Stamp: HYDRO TEST # 30-166C 184 2-12-19		Complete: 1183194C
OVER & ABOVE	Over and Above Details		
Start: 1183195S	Signature/Stamp: Jake Clasen N/A FEB 1 2 2019		Complete: 1183195C
ASSEMBLY & IN PROCESS INSPECTIONS	Perform required workscope, requisition parts & assemble in accordance with approved data & quality processes.		
Start: 1183196S	Signature/Stamp: 04 IP 308 2-12-19 (Parts details can be found on the Bill of Material page)		Complete: 1183196C

AEROSPACE TURBINE ROTABLES, INC.

1919 E. Northern St
Wichita, Ks 67216-2430, US
FAA Certified Repair Station No. NV2R045L, EASA.145.4033
Ph: (316) 943-6100, Fax: (316) 943-2917

Work Order

W/O Number: WO135688

Printed: 2/11/2019 11:12:48 AM

SERVICE — Service unit I.A.W. requirements.

Start: 1183197S

Signature/Stamp: 308 2-12-19

Complete: 1183197C

Measurement -
EXT. WEIGHT EMPTY (LBS)| N/A
DESIRED WT. EXT. AGENT (LBS)| N/A
DESIRED CHARGE WEIGHT (LBS)| N/A
N2 SUPERPRESSURE REG. (PSI)| N/A
AMBIENT TEMP. (FAHRENHEIT)| N/A
TOTAL WT. OF NITROGEN (LBS)| N/A
TOTAL WT. CHARGED EXT. (LBS)| N/A
CAPACITY CU.FT/DOT| 90CI
BOTTLE #[illegible]| MFG. DATE| 10-00
INSPECTOR STAMP AND DATE: | AETR 04 INSP FEB 1 2 2019
LEAK CHECKED TO: 1500PSI |

WORK/WORK ORDER REVIEW — Dept. Supervisor/designee review of article and work order to ensure all work has been performed I.A.W. FAR Part 43 and I.A.W. our RSOM.

Start: 1183199S

Signature/Stamp: 217 2-12-19

Complete: 1183199C

FINAL INSPECTION & MAINTENANCE RELEASE — Inspection review of component. Review all work performed, content embodied, & data used in the MRO cycle. Make airworthiness determination & release the product for return to service (if appropriate).

Start: 1183198S

Signature/Stamp: FEB 1 2 2019 AETR 04 INSP

Complete: 1183198C

Times/Cycles:	TSN	TSO	TSR	CSN	CSO	CSR

Manuals used to service this unit -
Manual ID: 510854, Type: DCN, Rev: L, Rev Date: 3/29/1995; Manual ID: 212940, Type: DWG, Rev: L, Rev Date: 4/14/1995; Manual ID: 42000100, Type: DWG, Rev: C, Rev Date: 5/17/1985; Manual ID: 9912103-DWG, Type: DWG, Rev: J, Rev Date: 7/22/1982; Manual ID: 9912103-SCD, Type: SCD, Rev: J & L, Rev Date: 5/15/1973; Manual ID: 9914099, Type: SCD, Rev: J, Rev Date: 10/21/1991

308 2-12-19

184 2-12-19

Tools used to service this unit - HYD-1 7-11-19

AEROSPACE TURBINE ROTABLES, INC.
1919 E. Northern St
Wichita, Ks 67216-2430, US
FAA Certified Repair Station No. NV2R045L, EASA.145.4033
Ph: (316) 943-6100, Fax: (316) 943-2917

Work Order
W/O Number: WO135688

Bill of Material

Flat Rate Parts	Qty	CD	Part Number	Description	Location
	0	IN	9912103-3	Pneumatic Reservoir	–
Flat Rate Parts	**Qty**	**CD**	**Part Number**	**Description**	**Location**
	1	NE	AE203	DECAL	H-69-05
	1	NE	NAS1612-8	O RING	H-09-03

HYDROSTATIC TEST CERTIFICATE
Issued By: Aerospace Turbine Rotables, Inc.
DOT RIN A136
This cylinder has been requalified and remarked in accordance with 49 CFR, §180.205 – §180.215 and/or applicable exemptions/special permits.

W.O. # WO135688 Date 2-12-19

Signature

F-750-257-B 11/13/2014

HYDRO DT. 2-12-19
NEXT HYDRO DUE 2-2022
EXP DT. 10-2024

TEXTRON AVIATION

Maintenance Transaction Record

CAMP MTR ID # 2928444

cescom

This Maintenance Report is To Be Used Solely For (Check One)

☑ Airframe Entries ☐ Eng.#1 Serial No. _____ ☐ Eng.#2 Serial No. _____ ☐ APU Serial No. _____

Aircraft Identification and Status

A/C Serial #	A/C Unit #	A/C Registration #	Date	City ID	Total A/C Hours	Total A/C Landings	Engine 1 Ttl Hrs	Engine 2 Ttl Hrs	Engine 1 Ttl Cycles	Engine 2 Ttl Cycles	APU Hrs	APU Events	Freon Hrs
500-0415	0629	N53RD	24-Oct-2018	KYNG	7835	7894	6510.7	10007	6383	8476			0

Component Changes, Inspections, Service Bulletins, or Airworthiness Directives Accomplished

Item	Transaction No.	Type	Item Name	Position	Part Number / Alternate Part	Mod Level	Part Serial	Removal Reason	Installed Part Status	TSN/TSO/TSR	Material Costs	Man Hours
5-12-0B	1	2	PHASE B									
	Comments:											
742010	2	1	NO. 2 ENGINE - OUTBOARD IGNITER PLUG	OUTBOARD	FHE-246-4		NSN	WO	N	0 MTH 0 HRS		
	Comments: Removed part no: FHE-246-4 Removed serial no: NSN.											
742010	3	1	NO. 1 ENGINE - OUTBOARD IGNITER PLUG	OUTBOARD	FHE-246-4		NSN	WO	N	0 MTH 0 HRS		
	Comments: Removed part no: FHE-246-4 Removed serial no: NSN.											
742020	4	1	NO. 1 ENGINE - INBOARD IGNITER PLUG	INBOARD	FHE-246-4		NSN	WO	N	0 MTH 0 HRS		
	Comments: Removed part no: FHE-246-4 Removed serial no: NSN.											
742020	5	1	NO. 2 ENGINE - INBOARD IGNITER PLUG	INBOARD	FHE-246-4		NSN	WO	N	0 MTH 0 HRS		
	Comments: Removed part no: FHE-246-4 Removed serial no: SN-UNKNOWN.											

Trans Type: 1 - Component, 2 - Inspection, 3 - SB, 4 - AD, – Misc.

Removal Reasons: WO - Worn to Limits, SC - Scheduled, UN - Unscheduled, CO - Convenience, N - Other(note in comments)

Installed Part Status: N - New, R - Repaired / Rebuilt, S - Serviceable, O - Overhauled, T - Tested, M - Modified, I - Inspected

Repair Facility WINNER AVIATION **Certified Repair Station Number** W6NR985J **Work Order No.** JET7629

Work Performed By WINNER AVIATION **Certificate No.** W6NR985J **Date** 24-Oct-2018

I certify that the above stated maintenance and/or inspection was performed in accordance with the current regulations of the

☑ Federal Aviation Administration ☐ Other (Specify) _____ and

WAS DETERMINED TO BE IN AIRWORTHY CONDITION WITH RESPECT TO THE WORK PERFORMED AND IS APPROVED FOR RETURN TO SERVICE.

Work Inspected By ROBERT CELLARS **Certificate No.** W6NR985J **Date** 24-Oct-2018

Pertinent details of this maintenance are on file at our facility under the above Work/Service Order Number as applicable.

Maintenance Log	
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TEXTRON AVIATION

Maintenance Transaction Record

CAMP MTR ID # 2928457

cescom

This Maintenance Report is To Be Used Solely For (Check One)

☐ Airframe Entries ☑ Eng.#1 Serial No. PCE-77347 ☐ Eng.#2 Serial No. _____ ☐ APU Serial No. _____

Aircraft Identification and Status

A/C Serial #	A/C Unit #	A/C Registration #	Date	City ID	Total A/C Hours	Total A/C Landings	Engine 1 Ttl Hrs	Engine 2 Ttl Hrs	Engine 1 Ttl Cycles	Engine 2 Ttl Cycles	APU Hrs	APU Events	Freon Hrs
500-0415	0629	N53RD	24-Oct-2018	KYNG	7835	7894	6510.7	10007	6383	8476			0

Component Changes, Inspections, Service Bulletins, or Airworthiness Directives Accomplished

Item	Transaction No.	Type	Item Name	Position	Part Number / Alternate Part	Mod Level	Part Serial	Removal Reason	Status	Installed Part TSN/TSO/TSR	Material Costs	Man Hours
5-12-0B	1	2	PHASE B									
	Comments:											
742010	2	1	NO. 1 ENGINE - OUTBOARD IGNITER PLUG	OUTBOARD	FHE-246-4		NSN	WO	N	0 MTH 0 HRS		
	Comments: Removed part no: FHE-246-4 Removed serial no: NSN.											
742020	3	1	NO. 1 ENGINE - INBOARD IGNITER PLUG	INBOARD	FHE-246-4		NSN	WO	N	0 MTH 0 HRS		
	Comments: Removed part no: FHE-246-4 Removed serial no: NSN.											

Trans Type: 1 - Component, 2 - Inspection, 3 - SB, 4 - AD, – Misc.

Removal Reasons: WO - Worn to Limits, SC - Scheduled, UN - Unscheduled, CO - Convenience, N - Other(note in comments)

Installed Part Status: N - New, R - Repaired / Rebuilt, S - Serviceable, O - Overhauled, T - Tested, M - Modified, I - Inspected

Repair Facility WINNER AVIATION **Certified Repair Station Number** W6NR985J **Work Order No.** JET7629

Work Performed By WINNER AVIATION **Certificate No.** W6NR985J **Date** 24-Oct-2018

I certify that the above stated maintenance and/or inspection was performed in accordance with the current regulations of the

☑ Federal Aviation Administration ☐ Other (Specify) _____ and

WAS DETERMINED TO BE IN AIRWORTHY CONDITION WITH RESPECT TO THE WORK PERFORMED AND IS APPROVED FOR RETURN TO SERVICE.

Work Inspected By ROBERT CELLARS **Certificate No.** W6NR985J **Date** 24-Oct-2018

Pertinent details of this maintenance are on file at our facility under the above Work/Service Order Number as applicable.

Maintenance Log	
Section	Page

TEXTRON AVIATION

Maintenance Transaction Record

CAMP MTR ID # 2928468

cescom

This Maintenance Report is To Be Used Solely For (Check One)

☐ Airframe Entries ☐ Eng.#1 Serial No. _____ ☑ Eng.#2 Serial No. PCE-76361 ☐ APU Serial No. _____

Aircraft Identification and Status

A/C Serial #	A/C Unit #	A/C Registration #	Date	City ID	Total A/C Hours	Total A/C Landings	Engine 1 Ttl Hrs	Engine 2 Ttl Hrs	Engine 1 Ttl Cycles	Engine 2 Ttl Cycles	APU Hrs	APU Events	Freon Hrs
500-0415	0629	N53RD	24-Oct-2018	KYNG	7835	7894	6510.7	10007	6383	8476			0

Component Changes, Inspections, Service Bulletins, or Airworthiness Directives Accomplished

Item	Transaction No.	Type	Item Name	Position	Part Number / Alternate Part	Mod Level	Part Serial	Removal Reason	Status	Installed Part TSN/TSO/TSR	Material Costs	Man Hours
5-12-0B	1	2	PHASE B									
	Comments:											
742010	2	1	NO. 2 ENGINE - OUTBOARD IGNITER PLUG	OUTBOARD	FHE-246-4		NSN	WO	N	0 MTH 0 HRS		
	Comments: Removed part no: FHE-246-4 Removed serial no: NSN.											
742020	3	1	NO. 2 ENGINE - INBOARD IGNITER PLUG	INBOARD	FHE-246-4		NSN	WO	N	0 MTH 0 HRS		
	Comments: Removed part no: FHE-246-4 Removed serial no: NSN.											

Trans Type: 1 - Component, 2 - Inspection, 3 - SB, 4 - AD, – Misc.

Removal Reasons: WO - Worn to Limits, SC - Scheduled, UN - Unscheduled, CO - Convenience, N - Other(note in comments)

Installed Part Status: N - New, R - Repaired / Rebuilt, S - Serviceable, O - Overhauled, T - Tested, M - Modified, I - Inspected

Repair Facility WINNER AVIATION **Certified Repair Station Number** W6NR985J **Work Order No.** JET7629

Work Performed By WINNER AVIATION **Certificate No.** W6NR985J **Date** 24-Oct-2018

I certify that the above stated maintenance and/or inspection was performed in accordance with the current regulations of the

☑ Federal Aviation Administration ☐ Other (Specify) _____ and

WAS DETERMINED TO BE IN AIRWORTHY CONDITION WITH RESPECT TO THE WORK PERFORMED AND IS APPROVED FOR RETURN TO SERVICE.

Work Inspected By ROBERT CELLARS **Certificate No.** W6NR985J **Date** 24-Oct-2018

Pertinent details of this maintenance are on file at our facility under the above Work/Service Order Number as applicable.

Maintenance Log	
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1. Approving Civil Aviation Authority/Country:	2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3. Form Tracking Number:
FAA/United States		6415567

4. Organization Name and Address:	5. Work Order/Contract/Invoice Number:
Textron Aviation Inc. (PC4) Textron Aviation Inc. 1 Cessna Blvd, Wichita, KS 67215	3299163

6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:
20	IGNITER	FHE246-4	1	N/A	New

12. Remarks:

AUTHORIZED RELEASE DOCUMENT

PO#: 1802468

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.:	14c. Authorized Signature:	14c. Approval/Certificate No:
Terry Weeks	PC4		
13d. Name (Typed or Printed):	**13e. Date (dd/mmm/yyyy):**	**14d. Name (Typed or Printed):**	**14e. Date (dd/mmm/yyyy):**
TERRY WEEKS	22/Oct/2018		

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.

1. Approving Civil Aviation Authority/Country:	2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3. Form Tracking Number:
FAA/United States		6415567

4. Organization Name and Address:	5. Work Order/Contract/Invoice Number:
Textron Aviation Inc. (PC4) Textron Aviation Inc. 1 Cessna Blvd, Wichita, KS 67215	3299163

6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:
20	IGNITER	FHE246-4	1	N/A	New

12. Remarks:

AUTHORIZED RELEASE DOCUMENT

PO#: 1802468

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.:
Tony Week	PC4		
13d. Name (Typed or Printed):	**13e. Date (dd/mmm/yyyy):**	**14d. Name (Typed or Printed):**	**14e. Date (dd/mmm/yyyy):**
TERRY WEEKS	22/Oct/2018		

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.

FAA Form 8130-3 (02-14) NSN: 0052-00-012-9005

1. Approving Civil Aviation Authority/Country:	2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3. Form Tracking Number:
FAA/United States		6415567

4. Organization Name and Address:	5. Work Order/Contract/Invoice Number:
Textron Aviation Inc. (PC4) Textron Aviation Inc. 1 Cessna Blvd, Wichita, KS 67215	3299163

6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:
20	IGNITER	FHE246-4	1	N/A	New

12. Remarks:

AUTHORIZED RELEASE DOCUMENT

PO#: 1802468

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.:
Tony Week	PC4		
13d. Name (Typed or Printed):	13e. Date (dd/mmm/yyyy):	14d. Name (Typed or Printed):	14e. Date (dd/mmm/yyyy):
TERRY WEEKS	22/Oct/2018		

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.

FAA Form 8130-3 (02-14) NSN: 0052-00-012-9005

1. Approving Civil Aviation Authority/Country:	2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG
FAA/United States	

4. Organization Name and Address:
Textron Aviation Inc. (PC4) Textron Aviation Inc. 1 Cessna Blvd, Wichita, KS 67215

6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:
10	GASKET	3017452	4	N/A

12. Remarks:

AUTHORIZED RELEASE DOCUMENT

PO#: 1802468

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 ☐ Othe
Certifies that unless otherwise specified in Bl 11 and described in Block 12 was accomplish Code of Federal Regulations, part 43 and in approved for return to service.

13b. Authorized Signature:	13c. Approval/Authorization No.:	14b. Authorized Signature:
Tony Week	PC4	
13d. Name (Typed or Printed):	13e. Date (dd/mmm/yyyy):	14d. Name (Typed or Printed):
TERRY WEEKS	22/Oct/2018	

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/

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthine 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 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 installat accordance with the national regulations by the user/installer before the aircraft may be flown.

FAA Form 8130-3 (02-14)

1. Approving Civil Aviation Authority/Country:	2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG
FAA/United States	

4. Organization Name and Address:
Textron Aviation Inc. (PC4) Textron Aviation Inc. 1 Cessna Blvd, Wichita, KS 67215

6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:
20	IGNITER	FHE246-4	1	N/A

12. Remarks:

AUTHORIZED RELEASE DOCUMENT

PO#: 1802468

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
Certifies that unless otherwise specified in Bl 11 and described in Block 12 was accomplish Code of Federal Regulations, part 43 and in approved for return to service.

13b. Authorized Signature:	13c. Approval/Authorization No.:	14b. Authorized Signature:
Tony Week	PC4	
13d. Name (Typed or Printed):	13e. Date (dd/mmm/yyyy):	14d. Name (Typed or Printed):
TERRY WEEKS	22/Oct/2018	

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/

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthine 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 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 installa accordance with the national regulations by the user/installer before the aircraft may be flown.

FAA Form 8130-3 (02-14)

Stevens Aviation Inc.
Hanger One, Wright Drive
Dayton International Airport
Vandalia, OH 45377.
Phone: 937-454-3440 / Fax 937-454-3449

StevensAviation Inc.

Maintenance Transaction Report

☒ Airframe Entries ☐ #1 Engine ☐ #2 Engine ☐ APU# ☐ Freon#

Aircraft Identification and Status

Aircraft Serial Number	A/C Unit #	A/C Registration #	Date (M0-Day-Yr.)	City Identifier	Total A/C Hours	Total A/C Landings	Total Engine Hours No. 1	Total Engine Hours No. 2	Total engine cycles No. 1	Total engine cycles No. 2	APU Hrs	Apu Events	Freon Hrs
500-0415	0415	N53RD	03/29/2018	DAY	7692.9	7815							

This Space For Other Maintenance Comments Including, Test or Calibration Dates, Removed Serial Numbers, Etc.

1. Replaced left hand fwd cabin seat operating lever and bushings with new using (2) ea. p/n B500-375 bushings and (1) ea. 5519012-3 handle.
2. Replaced right oil pressure and radio altimeter circuit breakers on R/H panel with new using (1) ea. p/n 7277-2-2.
3. Installed Rudder trim full right referance mark missing on aft side of pedestal using (1) ea. p/n 5565717-19.
4. Resecured Pilots O2 mask rubber strip on top of head band.
5. Removed surface corrosion. Treated, primed, and painted affected area on Right wing lower spoiler/speed brake.
6. Installed Emergency Power Test light, p/n MS90308-5, and bulb, p/n 6838 in the pilot's panel next to the Standby Power test switch. Wired the switch IAW Cessna 500 Series WDM.
7. Replaced LH and RH nav antenna with new using (2) ea. p/n CI120GS, s/n 559046 & , s/n 559047.
8. Replacedr Garmin GDL-88 antenna with new using (1) ea. p/n CI105, Ser# 85620.
9. Replaced bonding wire on left nose baggage door forward hinge with new using (1) ea. p/n MS25083-2AB8.
10. Replaced all empennage static wicks and one wing static wick with new using (8)ea. p/n 16920.
11. Removed standing water from fuel bay outboard of boost pump.
12. Removed pilot's inertia reel. Cleaned main shaft. Inertia check good. Reinstalled harness following rewebbing. Ops. check good.
13. Removed and replaced emergency exit door seal with new using (1) ea. p/n 5511250-18.
14. Repaired nose baggage left door seal.
15. Cleaned LH low fuel level float arm pivot. Ops check good.
16. Painted wing fuel cell access panels using Alumigrip Matterhorn White 4200.
17. Updated both GTN 750 databases to the current version.
18. Repositioned aileron servo cable drum guard pins.
19. Installed 7 new "Tank and Sump Drain" placards using (7) ea. p/n 550001-9.
20. Repositioned Right hand fwd cabin seat armrest trim to provide clearance.
21. Replaced the following LH wing fuel access panels with new:511AB, 511BB, 511CB, 511DB, 521AB, 532AB, 532CB AND 532FB. Leak check good.
22. Replaced the following RH wing fuel access panels with new: 611CB, 611DB, 611BB, 611AB and 632FB. Leak check good.
23. Adjusted rudder trim cable tension. Travel checked good.
24. Adjusted elevator trim cable tension. Travel checked good.
25. Replaced lamps in copilot panel GPS2 Annunciator with new using (2) ea. p/n 6839. Ops. check good.

Repair Facility: Stevens Aviation Inc. **Certificated Repair Station number:** VIB4368K **Work Order No.:** DAY-WO-5157

Work Performed By: Stevens Aviation, Inc. **Certificate Number:** VIB4368K **Date:** 03/29/2018

I certify the above stated maintenance and/or inspection was performed with the current regulations of the

☒ **Federal Aviation Administration**

☐ **Other:** _____ **and the aircraft identified above is presently airworthy and approved for return to service.**

Work Inspected By: Rob Peterson **Certificate Number:** VIB4368K **Date:** 03/29/2018

Maintenance Log

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WINNER AVIATION

Repair Station #: W6NR985J

May 21, 2018

Registration #: N53RD
Manufacturer: Cessna
Part/Model number: 500
Work Order No: JET7405

Total AC Time: 7,726.8
Total AC Cycles: 7,820

Aircraft Serial Number: 500041S
Date: 05/21/2018

Squawk

1.1 TBS - RIGHT ENGINE WILL NOT LIGHT OFF. LOCATED INTERMITTENT MICRO SWITCHES ON ENGINE CONTROL LEVERS, REMOVED AND REPLACED ALL FOUR SWITCHES P/N 1SE3-3,AND TWO ACTUATORS P/N JE61, OPERATIONAL CHECKED SATISFACTORY, ALL WORK ACCOMPLISHED IAW CESSNA 500 MM, CHAPTER 74.

1.2 TBS - PILOTS AND COPILOTS AUDIO PANEL SWITCHES, FOUND AND REPAIRED BROKEN WIRES, BROKEN SPLICES, DISCONNECTED WIRES AND REPLACED COPILOTS AND PILOTS AUDIO PANEL CONNECTORS P/N MS27473E20A35S, IAW CESSNA WIRING DIAGRAM 23-50-00. OPERATIONAL CHECKED GOOD.

All Work Performed I.A.W. Cessna 500 Appropriate Data.

These items identified above were repaired and/or inspected in accordance with current Federal Aviation Regulations and the repairs are approved for return to service. Pertinent details of these repairs are on file at the repair station under Work Order Number JET7405.

Signature
For Winner Aviation Repair Station #W6NR985J

cescom

Maintenance Transaction Record

MTR ID # 2706880

CAMP Systems International
8200 E. 34TH STREET
BUILDING 1600, SUITE 1607
Wichita, KS 67226
Phone: 316-462-2267/ Fax: 316-462-0791

This Maintenance Report is To Be Used Solely For (Check One)

☐ Airframe Entries ☐ Eng. #1 Serial No. _____ ☑ Eng. #2 Serial No. 76361 ☐ APU Serial No. _____

Aircraft Identification and Status

A/C Serial #	A/C Unit #	A/C Registration #	Date	City ID	Total A/C Hours	Total A/C Landings	Engine 1 Total Hrs	Engine 2 Total Hrs	Engine 1 Ttl Cycles	Engine 2 Ttl Cycles	APU Hrs	APU Events	Freon Hrs
500-0415	0629	N53RD	07-Apr-2017	KAID	7545.3	7697	6235.3	9717.3	6187	8262			0

Component Changes, Inspections, Service Bulletins, or Airworthiness Directives Accomplished

Item	Transaction No.	Type	Item Name	Position	Part Number / Alternate Part	Mod Level	Part Serial	Removal Reason	Installed Part Status TSN/TSO/TSR	Material Costs	Man Hours
SL500-72-10 *72SL-10 : E2**R*	1	3	RIGHT ENGINE TRANSMITTAL OF PRATT & WHITNEY CANADA (P&WC) SERVICE BULLETIN JT15D-72-7590, TURBOFAN ENGINE BORESCOPE INSPECTION OF IMPELLER REAR FACE AND COMMERCIAL SUPPORT PROGRAM NOTIFICATION (CSPN) C03001R1, SERVICE LETTER	RIGHT ENGINE							

MOC: NOT APPLICABLE

Comments: This SL 500-72-10 does not apply to currently installed engine S/N-PCE76361 installed in R/H position on this aircraft at this time. This SL 500-72-10 does not apply due to currently installed Impeller P/N-3032070, S/N-9C770, as indicated in Dallas Airmotive Overhaul Log book entry dated Nov,16,2001, under their work order #FT1731, FAA repair station #YRRR491L. No further action required.

Trans. Type: 1 - Component, 2 - Inspection, 3 - SB, 4 - AD, - - Misc. Removal Reasons: WO - Worn to Limits, SC - Scheduled, UN - Unscheduled, CO - Convenience, N - Other(note in comments) Installed Part Status: N - New, R - Repaired/Rebuilt, S - Serviceable, O - Overhauled

Repair Facility INDY JET SERVICES LLC **Certified Repair Station Number** _____ **Work Order No.** _____

Work Performed By RICHARD RADO **Certificate No.** AP3394403 **Date** 07-Apr-2017

I certify that the above stated maintenance and/or inspection was performed in accordance with the current regulations of the

☑ Federal Aviation Administration ☐ Other (Specify) _____ and

WAS DETERMINED TO BE IN AIRWORTHY CONDITION WITH RESPECT TO THE WORK PERFORMED AND IS APPROVED FOR RETURN TO SERVICE.

Work Inspected By RICHARD RADO **Certificate No.** AP3394403 **Date** 07-Apr-2017

Pertinent details of this maintenance are on file at our facility under the above Work/Service Order Number as applicable.

Maintenance Log

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cescom

Maintenance Transaction Record

MTR ID # 2679379

CAMP Systems International
8200 E. 34TH STREET
BUILDING 1600, SUITE 1607
Wichita, KS 67226
Phone: 316-462-2267/ Fax: 316-462-0791

cescom
A Division of CAMP Systems

This Maintenance Report is To Be Used Solely For (Check One)

☑ Airframe Entries ☐ Eng. #1 Serial No. _____ ☑ Eng. #2 Serial No. 76361 ☐ APU Serial No. _____

Aircraft Identification and Status

A/C Serial #	A/C Unit #	A/C Registration #	Date	City ID	Total A/C Hours	Total A/C Landings	Engine 1 Total Hrs	Engine 2 Total Hrs	Engine 1 Ttl Cycles	Engine 2 Ttl Cycles	APU Hrs	APU Events	Freon Hrs
500-0415	0629	N53RD	23-Dec-2016	KMQJ	7545	7696	6235	9717	6186	8261			0

Component Changes, Inspections, Service Bulletins, or Airworthiness Directives Accomplished

Item	Transaction No.	Type	Item Name	Position	Part Number / Alternate Part	Mod Level	Part Serial	Removal Reason	Installed Part Status TSN/TSO/TSR	Material Costs	Man Hours
5-12-01 *051204*	1	2	PHASE 1 INSPECTION								
			Comments: Complied with Phase 1 inspection IAW Cessna 500 MM 05-12-01. All required operational and leak checks completed satisfactory at this time.								
5-12-02 *051205*	2	2	PHASE 2 INSPECTION								
			Comments: Complied with Phase 2 inspection IAW Cessna 500 MM 05-12-02. All required operational and leak checks completed satisfactory at this time.								
5-12-03 *051206*	3	2	PHASE 3 INSPECTION								
			Comments: Complied with Phase 3 inspection IAW Cessna 500 MM 05-12-03. All required operational and leak checks completed satisfactory at this time.								
5-12-04 *051207*	4	2	PHASE 4 INSPECTION								
			Comments: Complied with Phase 4 inspection IAW Cessna 500 MM 05-12-04. All required operational and leak checks completed satisfactory at this time.								
057110	5	2	NO. 1 ENGINE - MINOR INSPECTION								
			Comments: Completed engine Minor Inspection IAW P&WC JT15D-1A MM 70-00-00. All required operational and leak checks completed satisfactory at this time.								
057110	6	2	NO. 2 ENGINE - MINOR INSPECTION								
			Comments: Completed engine Minor Inspection IAW P&WC JT15D-1A MM 70-00-00. All required operational and leak checks completed satisfactory at this time.								
052010C *052010C : R*	7	2	INSPECT RIGHT SIDE WINDOW INSPECTION	RIGHT							
			Comments: Performed prism inspection of right cockpit side window. All cracks in fastener holes are within serviceable limits at this time.								

Trans. Type: 1 - Component, 2 - Inspection, 3 - SB, 4 - AD, - - Misc. Removal Reasons: WO - Worn to Limits, SC - Scheduled, UN - Unscheduled, CO - Convenience, N - Other(note in comments) Installed Part Status: N - New, R - Repaired/Rebuilt, S - Serviceable, O - Overhauled

Repair Facility _____ **Certified Repair Station Number** _____ **Work Order No.** _____

Work Performed By RICHARD F. LEDERMAN **Certificate No.** AP3650912 **Date** 23-Dec-2016

I certify that the above stated maintenance and/or inspection was performed in accordance with the current regulations of the

☑ Federal Aviation Administration ☐ Other (Specify) _____ and

THE AIRCRAFT IDENTIFIED ABOVE IS PRESENTLY AIRWORTHY AND APPROVED FOR RETURN TO SERVICE.

Work Inspected By RICHARD F. LEDERMAN **Certificate No.** AP3650912 **Date** 23-Dec-2016

Pertinent details of this maintenance are on file at our facility under the above Work/Service Order Number as applicable.

Maintenance Log

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cescom

Maintenance Transaction Record

cescom
A Division of CAMP Systems

This Maintenance Report is To Be Used Solely For (Check One)

☑ Airframe Entries ☐ Eng. #1 Serial No. _____ ☒ Eng. #2 Serial No. 76361 ☐ APU Serial No. _____

CAMP Systems International
8200 E. 34TH STREET
BUILDING 1600, SUITE 1607
Wichita, KS 67226
Phone: 316-462-2267/ Fax: 316-462-0791

Aircraft Identification and Status

A/C Serial #	A/C Unit #	A/C Registration #	Date	City ID	Total A/C Hours	Total A/C Landings	Engine 1 Total Hrs	Engine 2 Total Hrs	Engine 1 Ttl Cycles	Engine 2 Ttl Cycles	APU Hrs	APU Events	Freon Hrs
500-0415	0629	N53RD	23-Dec-2016	KMQJ	7545	7696	6235	9717	6186	8261			0

Component Changes, Inspections, Service Bulletins, or Airworthiness Directives Accomplished

Item	Transaction No.	Type	Item Name	Position	Part Number / Alternate Part	Mod Level	Part Serial	Removal Reason	Installed Part Status	TSN/TSO/TSR	Material Costs	Man Hours
5-12-0B *051218*	8	2	PHASE B									

Comments: Complied with Phase B inspection IAW Cessna 500 MM 05-12-0B. All required operational and leak checks completed satisfactory at this time.

Trans. Type: 1 - Component, 2 - Inspection, 3 - SB, 4 - AD, - - Misc. Removal Reasons: WO - Worn to Limits, SC - Scheduled, UN - Unscheduled, CO - Convenience, N - Other(note in comments) Installed Part Status: N - New, R - Repaired/Rebuilt, S - Serviceable, O - Overhauled

Repair Facility _____ **Certified Repair Station Number** _____ **Work Order No.** _____

Work Performed By RICHARD F. LEDERMAN **Certificate No.** AP3650912 **Date** 23-Dec-2016

I certify that the above stated maintenance and/or inspection was performed in accordance with the current regulations of the

☑ Federal Aviation Administration ☐ Other (Specify) _____ and

THE AIRCRAFT IDENTIFIED ABOVE IS PRESENTLY AIRWORTHY AND APPROVED FOR RETURN TO SERVICE.

Work Inspected By RICHARD F. LEDERMAN **Certificate No.** AP3650912 **Date** 23-Dec-2016

Pertinent details of this maintenance are on file at our facility under the above Work/Service Order Number as applicable.

Maintenance Log

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72-00-00

Table 601 Periodic Inspection

COMPONENT	NATURE OF INSPECTION	INSPECTION INTERVAL	
		DAILY/PREFLIGHT	MINOR
ENGINE EXTERNALS			LT / RT
Tubing, Wiring, Control Linkage and Cables	Security of all accessible connections, clamps and brackets.		X R1R / R1R
	Evidence of wear, chafing, cracks and corrosion.		X R1R / R1R
	Evidence of fuel or oil leaks.		R1R / R1R
	Evidence of fraying, broken strands, security of cables and fittings.		X R1R / R1R
	Lubricate rod end connectors.		X R1R / R1R
Engine Mounts	Security and condition		R1R / R1R
Compressor Inlet	Check compressor inlet area for cleanliness.	X	X R1R / R1R
	Check low pressure compressor blades and stator vanes for dirt deposits, corrosion and erosion.	X	X R1R / R1R
	Pre-SB7268/Pre-SB7300 JT15D-4, -4B and -4D engines: inspect LP compressor case inner diameter for evidence of fan blade rub revealing parent metal. In the event of rub, inspect rubbed area for cracks using fluorescent dye penetrant. Repeat inspection every 100 hours. Reject any case exhibiting cracks. Incorporate Pre-SB7300 on replacement case.		X N/A / N/A
	Post-SB7268/ Post-SB7300 JT15D-4, -4B and -4D engines: inspect silicone damping ring for damage and position.		X N/A / N/A
	JT15D-4, -4B and -4D engines not incorporating SB7264 or SB7369: inspect LP compressor bypass stator retaining rivets around circumference of LP compressor case. Ensure that all rivets are present and secure.	Every 300 hours	N/A / N/A
Outer Bypass Duct	Check all bosses and brackets for evidence of bond separation (Ref. 72-70-03)		X R1R / R1R
Exhaust Duct	Cracks or distortion.		R1R / R1R
	Pre-SB7013 JT15D-1 and -1A engines: every 100 hours inspect 21 bolts (not lockwired) securing inner rear bypass duct to turbine exhaust duct.		X N/A / N/A

COMPONENT	NATURE OF INSPECTION	INSPECTION INTERVAL	
		DAILY/PREFLIGHT	MINOR
	Loosen bolts, then retorque to 32 to 36 lb.in. Replace and torque all missing bolts.		LT RT
No.4 Bearing Housing	Security of installation		X R/R R/R
	On Pre-SB7193 configuration: use a borescope to inspect No.4 bearing housing for security of retaining bolts and slab nuts. No borescope inspection is required on Post-SB7193 engines. Apply anti-galling compound (PWC06-032A) to threads of boresope plug port and install. Torque 25 to 35 lb.in. and lockwire. Do not exceed the torque value stated.		X R/R R/R
	Integrity of lockwire		R/R R/R
Accessories	Security of accessories		R/R R/R
Gas Generator Case - JT15D-4, -4B, -4D only: Pre-SB7240 engines with P/N 3020200, 3029241, 3029066 or 3106469-01 gas generator case (Ref. SB7217)	In-situ inspection using a borescope (Ref. 72-30-05). Inspect circumferential stitch weld: (1) Forward of bolts securing gas generator case deflector strips. (2) Welds forward and aft of stitch weld. (3) Longitudinal welds from containment to rear flange for cracks (Ref. Fig. 601). Viewed through a borescope, early distress of the case will be indicated as a black line , similar to a soft pencil line, and running alongside and adjacent to the welds. Suspect crack indication should be confirmed, ie. dye penetrant-inspected. Confirmed cracks in case are cause for removal; engine should be returned to an approved overhaul facility for repair.	Every 300 ± 50 hours N/A	N/A
Gas Generator Case - JT15D-4B only: Pre-SB7240 engines with P/N 3106469-01 gas generator case (Ref. SB7216)	In-situ inspection using a borescope (Ref. 72-30-05). Inspect gas generator case outer surface, paying particular attention to the following areas (Ref. Fig. 602): (a) Circumferential spot welds forward of the deflector retention bolt circle (Detail A). (b) Circumferential fusion welds (2) forward and aft of spot welds. (c) Longitudinal welds (1) along containment ring, and from containment ring to gas generator case rear flange. If a crack is detected, remove engine and send it to an approved overhaul facility for repair.	Every 150 hours N/A	N/A
HP Turbine Assembly: In-situ Inspection			
All JT15D-1, -1A, -1B and -4 engines not incorporating SB7297 or SB7317	Borescope inspection (see NOTES)	Initial inspection within 300 hours. Repeat inspection at intervals not to exceed 300 hours R/R R/R	
All JT15D-4B engines not	Borescope inspection (see NOTES)	Initial inspection within 300 hours TSN, 300 hours TSHSI, N/A N/A	

COMPONENT	NATURE OF INSPECTION	INSPECTION INTERVAL	
		DAILY/PREFLIGHT	MINOR
incorporating : SB7296 together with SB7297 or SB7317 or , SB7307 together with SB7297 or SB7317		300 hours TSO or 300 hours Time since previous inspection for HP turbine blade shift. Repeat inspection at intervals not to exceed 300 hours. N/A	
All JT15D-4D engines not incorporating: SB7296 together with SB7297 or SB7317 or, SB7307 together with SB7297 or SB7317	Borescope inspection (see NOTES)	Initial inspection within 25 hours. Repeat inspection at intervals not to exceed 300 hours N/A	
	NOTE: 1. Inspect HP turbine blades for evidence of blade shift using a 3 mm or a 4 mm flexible borescope. Blade forward movement in excess of 0.020 inch is reason for removal of the HP turbine for repair (Ref. 72-50-02).		
	NOTE: 2. Inspection with a a 5 mm or a 6 mm flexible borescope has proven extremely difficult and is no longer recommended.		
	NOTE: 3. Borescope access is achieved by passing the borescope probe between the blades of the LP turbine assembly. With the borescope in position, rotation of the HP rotor via the AGB starter generator driveshaft allows all HP turbine blades to be inspected. The extent of blade shift may be assessed by comparing with the HP turbine blade serration-to-serration pitch, which is 0.090 inch.		
Automatic Fuel Shutoff Mechanism (Post-SB7281/Pre-SB7306 only)	Using a borescope, inspect emergency fuel shutoff linkage to ensure security:		X N/A
	Borescope-inspect overspeed control shutoff linkage through the inspection port in exhaust duct cone. Verify cotterpin through D-headed bolt and castellated nut are intact. Castellated nut should be tight against the No. 4 bearing housing cover assembly.		X N/A
	Borescope-inspect overspeed control shutoff linkage through cut-out in rear inner bypass duct adjacent to shutoff valve. Access through back end of engine. Verify cotterpin through D-headed bolt and castellated		X N/A

COMPONENT	NATURE OF INSPECTION	INSPECTION INTERVAL	
		DAILY/PREFLIGHT	MINOR
	nut are intact. Castellated nut should be tight against the overspeed control bracket assembly.		
	Incorporate SB7306 before next flight if cotterpin is missing or security of linkage assembly appears compromised.		X N/A
	Apply anti-galling compound (PWC06-032A) to threads of borescope port plug and install plug in exhaust duct. Torque plug 25 to 35 lb.in. and lockwire. Do not exceed torque value stated.		
Overspeed Control Wire Rope (Pre-SB7288)	Using a borescope, inspect overspeed control wire rope clevis and ball end-to-cable joints for security:		X N/A
	Borescope-inspect clevis-to-wire rope joint through borescope inspection port in exhaust duct cone. Check for broken cable strands at joint.		
	Borescope -inspect ball end-to-wire rope joint through cut-out in rear inner bypass duct adjacent to emergency fuel shutoff valve. This area is accessible through the back end of the engine. Check for broken cable strands at the joint.		X N/A
	Incorporate SB7288 before next flight if any broken cable strands are found.		X N/A
	Apply anti-galling compound (PWC06-032A) to threads of borescope port plug and install plug in exhaust duct. Torque plug 25 to 35 lb.in. and lockwire. Do not exceed torque value stated.		
SYSTEMS			
Oil System	CAUTION: : **DO NOT MIX DIFFERENT BRANDS OR TYPES OF OIL WHEN CHANGING OIL OR WHEN REPLENISHING OIL BETWEEN OIL CHANGES (REF. SB7001).**		
Oil Change Interval	Oil quality is to be monitored on-condition and analyzed periodically as observations warrant (Ref. 72-00-00, SERVICING).		LT RT
Oil Quantity	Check oil level (Ref. 72-00-00, SERVICING).	X	X
	Check condition and security of oil filler cap (Ref. 79-30-01).	X	X
Oil Filter Element (cleanable) (Pre-	Remove the oil filter element and inspect for foreign matter (Ref. 79-20-01, OIL FILTER ELEMENT AND HOUSING - MAINTENANCE PRACTICES). Reject and	Every 200 hours	

COMPONENT	NATURE OF INSPECTION	INSPECTION INTERVAL	
		DAILY/PREFLIGHT	MINOR
SB7476 Engines)	replace unserviceable oil filter element.		LT RT
	Remove oil filter element and inspect for foreign matter. For cleaning and inspection (Ref. 79-20-01, OIL FILTER HOUSING AND PRESSURE RELIEF VALVE - MAINTENANCE PRACTICES). Reject and replace unserviceable oil filter element.	Every 800 hours or if oil change interval is warranted and at HSI interval (Ref. SB7003 for interval).	
Oil Filter Element (non-cleanable) (Post-SB7476 and Post-SB7581 Engines)	Remove the oil filter element and inspect for foreign matter (Ref. 79-20-01, OIL FILTER ELEMENT AND HOUSING - MAINTENANCE PRACTICES). Discard the oil filter if you find any foreign matter.	Every 200 hours and at HSI interval (Ref. SB7003 for interval).	
	Remove and inspect Post-SB7476 or Post-SB7581 oil filter element for foreign matter, then discard and replace (Ref. 79-20-01, OIL FILTER HOUSING AND PRESSURE RELIEF VALVE - MAINTENANCE PRACTICES).	Every 800 hours or if oil change interval is warranted.	
Fuel System			
Fuel	Check for presence of water.	X	
Fuel Pump	Check for security and fuel leaks.		
Fuel Pump Inlet Screen	Check screen for foreign matter and distortion. Clean and reinstall, or install new screen (Ref. 73-10-02), if necessary. Inspect screen after first flight following installation of engine.		X
	On new aircraft, check screen after each flight until no contamination is found.	X	X N/A IA
	Check screen after first flight or ground run whenever any component upstream of the screen is replaced.	X	X N/A N/A
Fuel Pump Outlet Filter (10 Micron)	Check for foreign matter and/or distortion. Install new filter at each inspection (Ref. 73-10-02).		X
Drain Valves	Security and leakage (Ref. 73-10-06).		
Fuel Control Unit	Security and leakage (Ref. 73-20-01).		X
	Free movement of linkage and ball joints for play.		

COMPONENT	NATURE OF INSPECTION	INSPECTION INTERVAL	
		DAILY/PREFLIGHT	MINOR
	instructions to remove and replace torque tube gasket (Ref. CMM's 73-20-05, 73-20-10, 73-20-14 or 73-20-00). Refer to engine Illustrated Parts Catalog (IPC), Introduction - Applicable Documentation and to IPC Chapter 73-20-01 to select applicable CMM.		LT | 2T
Flow Divider and Dump Valve	Security and leakage (Ref. 73-10-04).		X R/R | R/R
	Free movement of linkage and ball joints for play.		R/R | R/R
Ignition System			
Ignition Exciter	Security and condition (Ref. 74-10-01).		R/R | R/R
Ignition Cables	Chafing, wear and security (Ref. 74-20-01).		X R/R | R/R
Spark Igniters	Cleanliness and erosion (Ref. 74-20-02).		X R/R
	Operational test (Ref. 74-00-00).		R/R
Extreme Environment Inspection	For engine operating more than 40% of the time in zones considered extreme environmental harshness per environmental maps (Ref. Fig. 603).		X N/A | N/A
	Inspect the intermediate case for corrosion. Treat for corrosion as required (Ref. 71-00-00, POWER PLANT - CLEANING).		X N/A | N/A