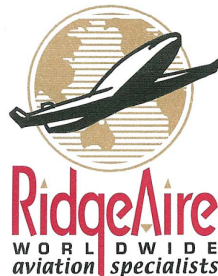


N977JP

1997 Learjet 31A

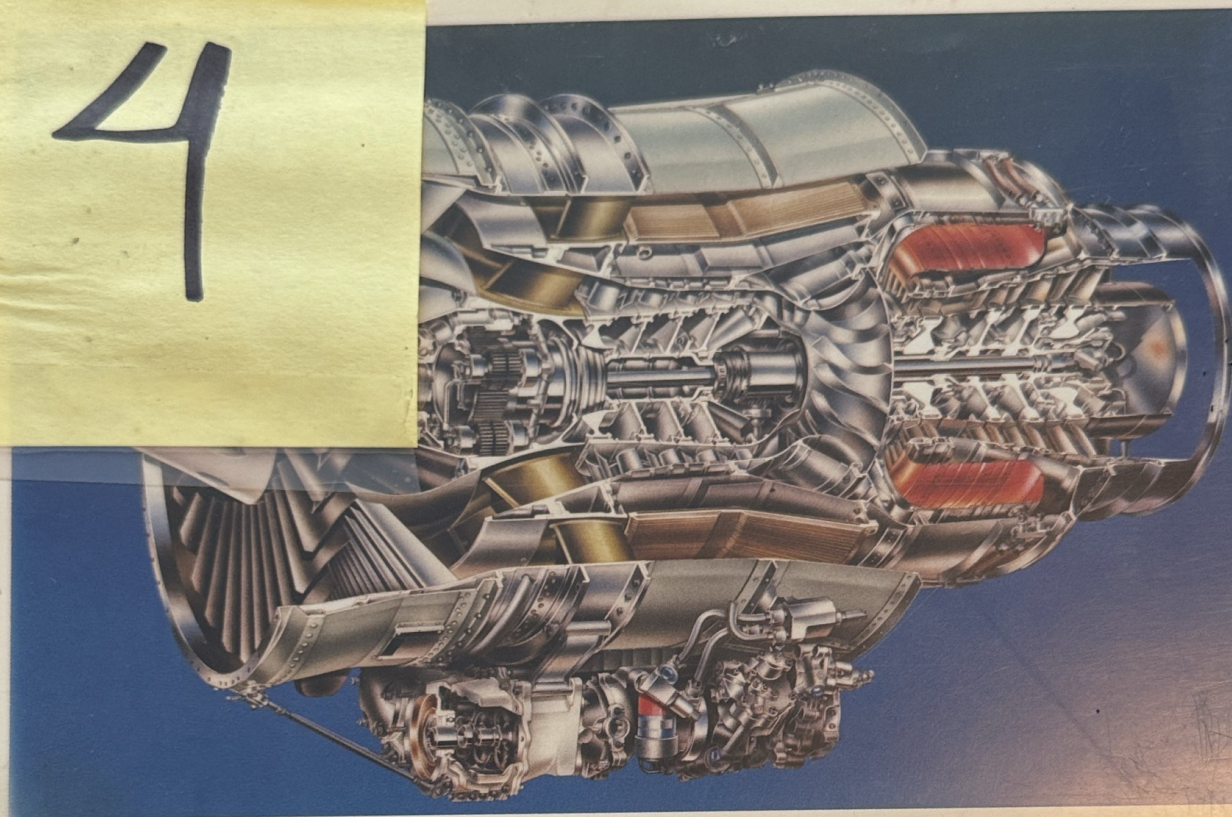
LH Engine Logbooks (2009-Current)



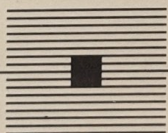
MSN: 31A140

Prepared by the worldwide aviation specialists at RidgeAire, Inc.

4



TFE731



ENGINE LOG BOOK

AlliedSignal
AEROSPACE

AlliedSignal Inc.
AlliedSignal Engines
111 South 34th Street
Phoenix, AZ 85034-2892

S/N

P- 99396

PX3107-2R3

Golden State Jet, LLC
7415 Hayvenhurst Place
Van Nuys, CA 91406

Make: Honeywell
Model: TFE731-2-3B
Serial Number: P-99396

Aircraft: Lear 31A-140
Aircraft Reg.: N977JP
Engine TT: 3970.0

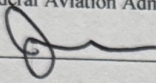
ACTT: 3970.0
ACTL: 3231
Engine TC: 3231

LEFT ENGINE LOGBOOK ENTRY

Description of work performed:

C/W inspection of the LH engine bypass duct area for worn fire sleeve and electrical harnesses. The fire sleeve wrapped harness was inspected and found to have no defects. The frayed material was trimmed and the sleeve secured. C/W IAW Honeywell TFE731.2LMM. No defects are found at this time.

The aircraft or component identified above has been repaired or inspected in accordance with the current maintenance manuals required and per the regulations of the Federal Aviation Administration, found to be airworthy with respect to the work performed, and is subsequently approved for return to service.

Technician:  Certificate: AP559770386 Date: September 20, 2009

ENGINE LOGBOOK ENTRY

Golden State Jet, LLC
7415 Hayvenhurst Place,
Van Nuys, CA 91406

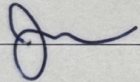
Model: TFE731-2-3B Engine Time: 4195.1
Serial Number: P-99396 Position: Left
Aircraft: Lear 31A-140 Aircraft Time: 4195.1

Engine Cycles: 3468
Landings: 3468

Type of inspection or work performed:

C/W removal of the LH engine, serial number P-99396, for purposes of MPI/CZI inspections due. Work was complied with in accordance with Lear 31A MM 71-00-01 and TFE731-3 LMM.

The aircraft or component identified above has been repaired or inspected per current regulations of the Federal Aviation Administration, found to be airworthy with respect to the work performed and is subsequently approved for return to service.

Technician:  Certificate: AP559770386 Date: 8/17/2010

ENGINE LOGBOOK ENTRY

Golden State Jet, LLC
7415 Hayvenhurst Place,
Van Nuys, CA 91406

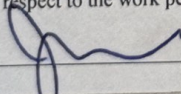
Model: TFE731-2-3B Engine Time: 4219.2
Serial Number: P-99396 Position: Left
Aircraft: Lear 31A-140 Aircraft Time: 4219.2

Engine Cycles: 3497
Landings: 3497

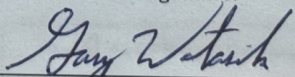
Type of inspection or work performed:

C/W SOAP check required 25 hours following MPI. Serviced engine with Mobil 254 oil. C/W engine run leak check OK.

The aircraft or component identified above has been repaired or inspected per current regulations of the Federal Aviation Administration, found to be airworthy with respect to the work performed and is subsequently approved for return to service.

Technician:  Certificate: AP559770386 Date: 11/13/2010

AVERY®
PV119G

1. Approving National Aviation Authority/Country: FAA / UNITED STATES		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG				3. Form Tracking Number: 266138	
4. Organization Name and Address: StandardAero 6201 W. Imperial Hwy. Los Angeles, CA 90045-6397				5. Work Order/Contract/Invoice Number: 266138			
6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:	
1	TFE731-2-3B engine	3073610-3	N/A	1ea	P-99396	Inspected	
13. Remarks: Disassembled engine to accomplish inspections identified below. Accomplished a full acceptance test cell run. All work accomplished in accordance with the manufacturer's maintenance manual, report no. 72-02-01, Rev 10., and report no. 72-02-71 Rev 11. Engine oil drained. This engine has been repaired / inspected in accordance with the current regulations of the Federal Aviation Administration. This engine is approved for return to service with respect to the work performed. This is to certify that the following inspections * have been accomplished in accordance with S/B 72-3105, Rev. 13, and the manufacturer's recommended program. * 1400 HR. Major Periodic Inspection. Note: Includes all routine inspections. * 1400 HR. Plenum Case Inspection. * 4200 HR. Compressor Zone Inspection. * 4200 HR. Accessory Gear Box Inspection. * 4200 HR. Fan Support Inspection. This engine will require the following inspections after installation in order to comply with the TFE Light Maintenance Manual Major Inspection requirements: Electrical wiring and connections, control system overspeed check, (EEC only) over-temperature limiting, manual mode transfer test. Note: This engine fuel system has been preserved. Engine shall not be operated until depreservation procedures are performed in accordance with TFE731 Light Maintenance Manual. Next S.O.A.P. is required in 25 hours service. Engine: T/T 4195.1, T/C 3468							
14. Certifies the items identified above were manufactured in conformity to: ☐ Approved design data and are in condition for safe operation. ☐ Non-approved design data specified in Block 13.			19. ☒ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13 Certifies that unless otherwise specified in block 13, the work identified in Block 12 and described in Block 13 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.				
15. Authorized Signature:		16. Approval/Authorization No.:		20. Authorized Signature:  Gary Wotasik		21. Approval/Certificate No.: CRS AN3R377L	
17. Name (Typed or Printed):		18. Date:		22. Name (Typed or Printed): Gary Wotasik		23. Date (m/d/y): August 26, 2010	
User/Installer Responsibilities It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. 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 accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1. Statements in Blocks 14 and 19 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.							

StandardAero LAX

DATE
August-25-2010

ENGINE HOURS
4195.1

ENGINE CYCLES
3468

Model: TFE731-2-3B Part No. 3073610-3 Serial No. **P-99396**

Disassembled engine to accomplish inspections identified below. Accomplished a full acceptance test cell run. Complied with SFAR 36/RD305. All work accomplished in accordance with the manufacturer's maintenance manual, report no. 72-02-01, Rev 10., and report no. 72-02-71 Rev 11. Engine oil drained.

This engine has been repaired / inspected in accordance with the current regulations of the Federal Aviation Administration. This engine is approved for return to service with respect to the work performed. This is to certify that the following inspections * have been accomplished in accordance with S/B 72-3105, Rev. 13, and the manufacturer's recommended program.

- * **1400 HR.** Major Periodic Inspection. Note: Includes all routine inspections.
- * **1400 HR.** Plenum Case Inspection.
- * **4200 HR.** Compressor Zone Inspection.
- * **4200 HR.** Accessory Gear Box Inspection.
- * **4200 HR.** Fan Support Inspection.

This engine will require the following inspections after installation in order to comply with the TFE Light Maintenance Manual Major Inspection requirements: Electrical wiring and connections, control system overspeed check, (EEC only) over-temperature limiting, manual mode transfer test.

Note: This engine fuel system has been preserved. Engine shall not be operated until depreservation procedures are performed in accordance with TFE731 Light Maintenance Manual.

Details of work performed are on file at this agency under work order no. **266138** A4AE: 14.008 A5AE: 25.666

Refer to appropriate sections of logbook for Service Bulletins and Airworthiness Directives accomplished.

Next S.O.A.P. is due in **25** hours service.

StandardAero
6201 W. Imperial Hwy.
Los Angeles, Ca. 90045
Repair Station No. AN3R377L

Signature

Gary Woluck

Stamp



Date 8/25/10
Engine 99396

. PARTS CHANGE RECORD .

Page 1 of 1

	<u>Nomenclature</u>	<u>Part No.</u>	<u>Serial No.</u>	
1	#5 CARBON SEAL	3074574-1	071936801670	NEW
1	#4 CARBON SEAL	3074573-2	071936801286	NEW
1	#1 CARBON SEAL	3075675-2	01069020-00040	NEW
1	#3 CARBON SEAL	3075719-1	01069020-00433	NEW
1	FOURTH STAGE LPC STATOR	3074555-8	10330000065	NEW
1	HPC SHROUD	3073407-5	4P-1873	REPAIRED
1	#4 CARBON SEAL RUNNER	3075639-2	0918206606764	NEW
1	#5 BEARING	358825-1	10151725-03394	NEW
1	#5 CARBON SEAL RUNNER	3075633-2	0918206605496	NEW
1	FUEL MANIFOLD	3073591-1	7-544C	OVERHAUL
1	1ST STAGE LPT ROTOR	3075828-1	080322902254	NEW
1	2ND STAGE LPT ROTOR	3072069-5	080322900285	NEW
1	FUEL HEATER CHECK VALVE	3073932-4	97-11426-500	REPAIRED
1	OIL PUMP	3060785-2	061405701019	OVERHAUL

Gary W. Smith
StandardAero (LAX)
C.R.S. AN3R377L
RTS
010

ENGINE ☐MODULE ☐

SERIAL NUMBER _____

SERVICE RECORD

PAGE _____

DESCRIPTION OF INSPECTIONS, REPAIRS AND OVERHAULS

ENDORSE ALL INSPECTIONS AND REPAIRS WITH NAME, RATING AND CERTIFICATE NUMBER.

ENGINE LOGBOOK ENTRY

Golden State Jet, LLC
7415 Hayvenhurst Place,
Van Nuys, CA 91406

Model: TFE731-2-3B Engine Time: 4195.1 Engine Cycles: 3468
Serial Number: P-99396 Position: Left
Aircraft: Lear 31A-140 Aircraft Time: 4195.1 Landings: 3468

Type of inspection or work performed:

C/W installation of Left engine after 1400/4200 hour CZI/MPI by Standard Aero LAX, CRS AN3R377L, under W/O 266138, with 8130-3 dated Aug 26, 2010. Engine P/N 3073610-3 S/N P-99396 was installed IAW Learjet MM 71-00-01 and TFE731-2 LMM. All post installation checks accomplished satisfactory. Engine serviced with Mobil 254 oil. Oil SOAP check required at 4020.1 ACTT.

The aircraft or component identified above has been repaired or inspected per current regulations of the Federal Aviation Administration, found to be airworthy with respect to the work performed and is subsequently approved for return to service.

Technician: _____

Certificate: AP559770386

Date: 9/13/2010

ENGINE LOGBOOK ENTRY

Golden State Jet, LLC
7415 Hayvenhurst Place,
Van Nuys, CA 91406

Model: TFE731-2-3B Engine Time: 4404.5 Engine Cycles: 3701
Serial Number: P-99396 Position: Left
Aircraft: Lear 31A-140 Aircraft Time: 4404.5 Landings: 3696

Type of inspection or work performed:

C/W 200 Hour engine inspection IAW TFE732-2 LMM.
C/W SOAP. Serviced engine with Mobil 254 oil.
C/W engine run leak check OK.

The aircraft or component identified above has been repaired or inspected per current regulations of the Federal Aviation Administration, found to be airworthy with respect to the work performed and is subsequently approved for return to service.

Technician: _____

Certificate: AP559770386

Date: 7/6/2011

TOTALS TO DATE

ENGINE ☐
MODULE ☐
SERIAL NUMBER _____

SERVICE RECORD

PAGE _____

DESCRIPTION OF INSPECTIONS, REPAIRS AND OVERHAULS
ENDORSE ALL INSPECTIONS AND REPAIRS WITH NAME, RATING AND CERTIFICATE NUMBER.

DATE



2533B Airport Blvd.
West Columbia, S.C
CRS# 3WTR399B

Aircraft Make Learjet / Model: 31A S/N: 31A-140 Registration#: N977JP TTAC 4520.4 Cycles 3807

Left Engine TFE731-2-3B s/n P-99396 TTeng 4520.4 and 3807 cycles

Date: 07/23/2012 Work Order LR162

The following Inspections were Accomplished :

-
- Comply with 150/300 Hour Inspection on the LH Engine.
- Complied with a Phase A1 thru A6, B1 thru B6, C1 thru C6 and D1 thru D6 Inspections..

The following Work was Accomplished :

- Mod valves sent to West Star GJT CRS WTXR173J for disassembly and repair Re-installed Repaired Regulating and Shutoff Valve
pn: 3214478-2, sn: 2844 using new gaskets. Gasket/seal p/n 612A51-0038-2. valve repaired under W.O.# 26911 ,8130's dated 6-28-20012.

MX RELEASE

The aircraft identified above was inspected in accordance with current regulations of the Federal Aviation Administration with Respect to the work specified in /except as otherwise noted is approved for return to service.

I Certify that the above Maintenance/Inspections were performed in accordance with FAR 91.409(f)(3) and is determined to be in an airworthy condition with respect to the work performed. **Work Order LR162.**

Authorized Signature: _____

CRS# 3WTR399B

Page 1 of 1

THIS CERTIFIES THAT THE TYPE OF INSPECTION LISTED AND SIGNED OFF IS IN ACCORDANCE WITH THE MANUFACTURER'S INSPECTION INSTRUCTIONS AS
DEFINED IN CURRENT APPLICABLE MAINTENANCE MANUAL.

ENGINE ☒ MODULE ☐ SERIAL NUMBER <u>P 99396</u>	SERVICE RECORD DESCRIPTION OF INSPECTIONS, REPAIRS AND OVERHAULS ENDORSE ALL INSPECTIONS AND REPAIRS WITH NAME, RATING AND CERTIFICATE NUMBER.
---	--

DATE	HOURS THIS FLIGHT	CYCLES THIS FLIGHT	ACCUMULATIVE TOTALS				DESCRIPTION OF WORK PERFORMED
			HOURS		CYCLES		
			SINCE NEW	SINCE O/H	SINCE NEW	SINCE O/H	
							#1 ENGINE JUNE 26, 2013 TFE731-2-3B T.S.N: 4591. 8 S/N: P-99396 T.C.N: 3857 - Performed 1200 Hour OIL CHANGE. nr/01 - Repaired minor Oil leak at Oil Tank Supply Line by installing new Packings S9413-022 and S9413-120. nr/02 - Performed 150/250 Hour Routine Inspection. No defects noted. TFE1902 ENGINE SERVICED WITH MOBIL JET 254, AND IS DUE BASELINE S.O.A.P. SAMPLE IN 25 HRS. All maintenance performed on this Engine was performed in accordance with current regulations of the Federal Aviation Administration & current Revision of the Honeywell TFE731-2 L.M.M. and is approved for return to service with respect to the work performed. For details of work see Work Order # 299234 on file at this agency. STANDARD AERO, 17250 Chanute Road, Houston, Texas 77032 1-800-877-5411 CRS # XB1R606K

By: KEN MILLER /

BREATHER VALVE REPLACEMENT

Position 1
TFE 731-2-3B
S/N P-99396

TSN: 4681.4
CSN: 3927

- Removed breather valve P/N 3075323-3, S/N 1291 and replaced with overhauled unit P/N 3075323-3, S/N 1645
- Serviced engine oil to correct level with Mobil 254. Operational check, leak check satisfactory. No discrepancies noted. All work performed IAW Honeywell TFE 731-2 LMM 72-02-01 revision 10.

All maintenance on this Engine was performed in accordance with current regulations of the Federal Aviation Administration and it is approved for return to service with respect to the work accomplished. For further details, reference **W.O. 314055** at this agency. **StandardAero – CRS# XB1R606K 17250 Chanute Road, Houston, Texas. 77032**

By: Norman Whitfield

01/12/15

StandardAero

TOTALS TO DATE

PAGE _____

SERVICE RECORD

DESCRIPTION OF INSPECTIONS, REPAIRS AND OVERHAULS
SEE ALL INSPECTIONS AND REPAIRS WITH NAME, RATING AND CERTIFICATE NUMBER.

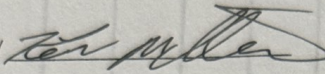
1 ENGINE
JULY 31, 2015

TFE731-2-3B
T.S.N: 4717. 8

S/N: P-99396
T.C.N: 3956

This certifies that a **150-250, 300-400 & 600-800 HOUR INSPECTION** has been accomplished on this engine in accordance with Manufactures approved program required by FAR 91.409(f)(3) and found to be airworthy. TFE1907

All maintenance performed on this Engine was performed in accordance with current regulations of the Federal Aviation Administration & current Revision of the Honeywell TFE731-2 L.M.M. and is approved for return to service with respect to the work performed. For details of work see **Work Order # 318338** on file at this agency.
STANDARD AERO, 17250 Chanute Road, Houston, Texas 77032 1-800-877-5411 CRS # XB1R606K

By: KEN MILLER / 



Standard Aero

1 ENGINE
AUGUST 21, 2015

TFE731-2-3B
T.S.N: 4717. 8

S/N: P-99396
T.C.N: 3956

- Removed faulty Breather Valve, p/n 3075323-3, s/n 1645 and installed "Overhauled" exchange Valve p/n 3075323-3, s/n 9908145506070. Installed Valve was certified by Honeywell International, Inc, 1944 E. Sky Harbor Circle, Phoenix, AZ. 85034, C.R.S. # ZN3R030M, on Aug. 03, 2015 on Repair Order # 321615087.
- Replaced faulty Fuel Control Unit, p/n 3070800-22, s/n A6046CT with "Repaired" exchange F.C.U, p/n 3070800-33, s/n A10603. Installed F.C.U. certified by Honeywell, ASCa PEI, Canada, C.R.S. # AMO 20-19 on Feb. 11, 2015 on Service Order # 5008131517. Installed F.C.U. Service Order and Transport Canada "Form One" attached to Component Maintenance / Modification Record Hard Card located in the "Accessories" Section of this log book.
- Functional, operational and leak checks for above two units were performed I.A.W. Honeywell TFE731-2 L/M/M with no defects noted.

All maintenance performed on this Engine was performed in accordance with current regulations of the Federal Aviation Administration & current Revision of the Honeywell TFE731-2 L.M.M. and is approved for return to service with respect to the work performed. For details of work see **Work Order # 318338** on file at this agency.
STANDARD AERO, 17250 Chanute Road, Houston, Texas 77032 1-800-877-5411 CRS # XB1R606K

By: KEN MILLER / 



Standard Aero

1 ENGINE
SEPTEMBER 26, 2016

TFE731-2-3B
T.S.N: 4789. 8

S/N: P-99396
T.C.N: 4002

- Replaced Alternator Drive Pad Gear-shaft leaking Encased Seal p/n 3020052-8 with New same p/n Seal.
- This certifies that a **150-250 HOUR INSPECTION** has been accomplished on this engine in accordance with Manufactures approved program required by FAR 91.409(f)(3) and found to be airworthy. TFE1902

All maintenance performed on this Engine was performed in accordance with current regulations of the Federal Aviation Administration & current Revision of the Honeywell TFE731-2 L.M.M. and is approved for return to service with respect to the work performed. For details of work see **Work Order # 327351** on file at this agency.
STANDARD AERO, 17250 Chanute Road, Houston, Texas 77032 1-800-877-5411 CRS # XB1R606K

By: KEN MILLER / 



Standard Aero

ENGINE ☐
MODULE ☐
SERIAL NUMBER

DATE

THIS CERTIFIES THAT THE TYPE OF INSPECTION LISTED AND SIGNED
DEFINED IN CURRENT

ENGINE ☐
MODULE ☐
SERIAL NUMBER _____

SERVICE RECORD

PAGE _____

DESCRIPTION OF INSPECTIONS, REPAIRS AND OVERHAULS
ENDORSE ALL INSPECTIONS AND REPAIRS WITH NAME, RATING AND CERTIFICATE NUMBER.

DATE	HOURS THIS FLIGHT	CYCLES THIS FLIGHT	ACCUMULATIVE TOTALS				DESCRIPTION OF WORK PERFORMED
			HOURS		CYCLES		
			SINCE NEW	SINCE O/H	SINCE NEW	SINCE O/H	
							TOTALS BROUGHT FORWARD

Position 1

TFE 731-2-3B

SN: 99396

TSN: 4815.5

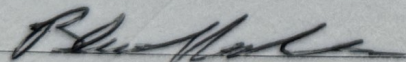
N977JP

CSN: 4023

- Removed oil pump PN: 3060785-2, SN: 061405701019 and replaced with overhauled PN: 3060785-3, SN: 021405700220.
- Removed and replaced starter/generator carbon seal with new PN: 3072784-2.
- Resealed breather valve with new garloc seal PN: 3020052-26.
- Serviced engine oil to correct level with Mobil 254. Performed post installation operational checks, leak checks and adjustments.
- Work performed IAW TFE 731-2 LMM 72-02-01 revision 10. No discrepancies noted.

All maintenance on this Engine was performed in accordance with current regulations of the Federal Aviation Administration and is approved for return to service with respect to the work accomplished. For further details, reference **W.O. 335923** at this agency **Standard Aero CRS# XB13606K** 8620 W. Monroe Rd, Houston, Texas. 77061.

By: Bleu Stalder



6-7-2017


StandardAero

TOTALS TO DATE