Maintenance Group Chairman Factual Report

Attachment 8 - Helicopter Services of Nevada Work Order, M-517

WPR10FA371

HELICOPTER SERVICES OF NEVADA, LLC

1411 Airport Rd. Boulder City Airport, Nevada

WORKORDER# M-517

PH. 702-953-8809 FX. 702-968-8639 FAA CRS KBMR477F

		DATE OPENED	22-Jul-10	DATE CLOSED 1	21.2010
COMPANY	AIR METHODS LIFENET OF AZ 2180 W OAK AVE DOUGLAS, AZ 85607	MAKE/MODEL SERIAL NUMBER AC TOTAL TIME		Cust PO REGISTRATION: ENG. S/N ENG T. TIME	509AM 4626 8 2 336 6
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PHONE		HOBBS	N/A	ENG NP CYC	

ITEM#	INSPECTION AND/OR REPAIRS TO BE COMPLETED	OPENED BY
1	REPAIR FUEL MANIFOLD COKING	W YOUNG

I CERTIFY THAT THE WORK PERFORMED ABOVE WAS ACCOMPLISHED IN ACCORDANCE WITH CURRENT FAA AIRWORTHINESS REGULATIONS AND IN RESPECT TO THE WORK PERFORMED, THE AIRCRAFT OR COMPONENT(S) IS RETURNED TO SERVICE.

NAME	W YOUNG	SIG TO THE RESERVE	FAA CRS KBMR477F
TITLE	INSPECTOR	DATE 7-27-10	_

STATEMENT: FOR ANY FACTORY NEW (FN) PARTS INSTALLED ON THIS WORK ORDER; PARTS IDENTIFIED ABOVE WERE OBTAINED FROM THE MANUFACTURER AND MEET REQUIREMENTS OF FAA PART 21 PRODUCTION CERTIFICATE 100. ALL SERVICES PERFORMED ARE REQUIRED TO CONFORM TO THE MANUFACTURER APPROVED STANDARDS AND CURRENT MANUFACTURER PUBLICATIONS AND FAA REQUIREMENTS.

STATEMENT: FOR ANY FAA APPROVED NON MANUFACTURER SUPPLIED PARTS USED ON THIS WORK ORDER (SV),(OH),(NS), : PARTS IDENTIFIED ARE FAA APPROVED BUT MAY NOT HAVE BEEN PRODUCED UNDER THE MANUFACTURER'S FAA PRODUCTION CERTIFICATE AND HAVE NOT BEEN SUBJECTED TO THE MANUFACTURER'S PROCESS CONTROLS AND/OR TYPE INSPECTIONS. THE MANUFACTURER DOES NOT WARRANT THESE PARTS AND THE USE OF PARTS MAY NEGATE THE MANUFACTURER'S WARRANTY.

I, THE CUSTOMER HEREBY AUTHORIZE THE ABOVE WORK TO BE PERFORMED AND UNDERSTAND HSN IS NOT RESPONSIBLE FOR LOSS OR DAMAGE TO AIRCRAFT OR ARTICLES IN CASE OF FIRE, THEFT OR ANY OTHER CAUSE BEYOND HSN'S CONTROL. AN EXPRESS MECHANICS LIEN IS ALSO ACKNOWLEDGED ON THE ABOVE AIRCRAFT OR COMPONENT TO SECURE THE AMOUNT OF REPAIRS THERETO.

CUSTOMER APPROVAL SIGNATURE:

WORK ORDER

SERIAL NUMBER

CUSTOMER

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BILLING HELICOP		CES OF NEV	ADA		WORK ORDER NUMBER M-517	_
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ARTICLE	_	<u></u>		ADDRESS	2180 W OAK AVE	_
A/C REG	_	50			DOUGLAS, AZ 85607_	
TOTAL HR	s -		0			_
TRAVEL H						<u>-</u> -
HRS X		0.00	\$0.00			_
Travel Mileage		0.00	\$0.00			_
PARTS TOTAL IN	VOICE			DATE OPENE DATE CLOSE	22-Jul-10	<u> </u>
TOTAL IN						=
ITEM	Date MM/DD/YY			DESCRIPTION OF W	ORK	
1	7.24.10		see wor	K order m W.y.	nan or hour Hours	
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3					Hours	<u> </u>
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EXPENS	E REIMBURSI	MENT:				

HELICOPTER SERVICES OF NEVADA PARTS REQUEST SHEET

CUSTOMER: AIR METHODS

WORK ORDER: M-517

QTY	PART NUMBER	DESCRIPTION	LOC	SERIAL NUMBER	ISSUED
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1	ARITECKIT3	ship kit			TEC
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APPROVED BY:	
COMPLETED BY:	Course
DATE ISSUED:	

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. Approving National Aviation Authority / Country

FAA / UNITED STATES

AUTHORIZED RELEASE CERTIFICATE

FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG

CUSTOMER:

TURBOMECA USA

3. Form Tracking Number:

W.O.: R10060731000

4. Organization Name and Address:

Propulsion Technologies International, LLC 15301 SW 29th Street Miramar, FL 33027 USA

#XZ4R084M



5. Work Order / Contract / Invoice Number:

MU37940

No. Attachments 1EA

6.	7. Description:	8.	9.	10.	11.	12.
Item		Part Number:	Eligibility: *	Quantity:	Serial / Batch Number:	Status/Work:
1	FUEL INJECTION MANIFOLD	0292217030	N/A	1	861B	REPAIRED

3. Remarks

Inspections: Per ATA 72-43-20 (Overhaul Criteria) Repairs: RP-01-150/RP-01, and RP-01-150/RP-15.

Per: TURBOMECA ARRIEL2 Engine Manuai No. X 292 N5 500 2, Reference 72-43-20 Revision 27, Dated 7/30/09

Notes: Records Of Work Performed Are On File At Propulsion Technologies International.

This certifies that the work specified in Block 12/13 was carried out in accordance with EASA.145 and with respect to that work, the aircraft componen? is considered ready for release to service under EASA Acceptance Certificate Number EASA.145.4791

14	Certifies the items identified above were manufactured in conformity to:	19.	FAR 43.9 Return to Service Other Regulation	specified in Block 13
\Diamond	Approved design data and are in a condition for safe operation.		Certifies that unless otherwise specified in Block 13, the work identified in	
×	Non-approved design data-specified in Block 13.		was accomplished in accordance with Title 14, Code of Federal Regulations, work, the items are approved for return to service.	part 43 and in respect to that
15	Authorized Signature 16 Approval Authorization No.	20.	Authorized Signature:	21. Approval / Certificate No :
$\stackrel{\sim}{\searrow}$			1900 1005	#XZ4R084M
įŽ.	Name (Typed or Printed) 18 Date (m/d/y)	22.	Name (Typed or Printed):	23. Date (m/d/v):

User / Installer Responsibilities

It is important to understand that the existance 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 authority 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 any aircraft may be flown.

Jun / 18 / 2010

uns de chaque changement d'utilisateur , d'aéronaf ou de position moteur, passer à la page su-vante

Order No.

65008

AIR METHODS CORPORATION

7301 SOUTH PEORIA, ENGLEWOOD, COLORADO 80112

(303)792-7450 FAX (303)792-7555

SHIP TO: LIFENET OF ARIZONA

LNAZ01 ATTN: MIKE FLINN

2180 W OAK AVE

DOUGLAS

State: AZ Zip: 85607

VENDOR:

HELICOPTER SERVICES OF NEVADA .

HESN05

1411 AIRPORT ROAD

BOULDER CITY, NV 89005

Attention: AOG: (702)797-0762.

sales@hsnv.us

Phone: 702~953-8809

DATE OF ORDER	SHIP VIA	DATE REQUIRED	AIR METHODS MECHANICS USE ONLY
07/23/2010	ACCT#:	07/23/2010	DATE SERVICE COMPLETED

Comments: ON SITE TECH SUPPORT

ITEM	Quantity U/M Part Number	Description	Serial No.	Tail No.	WO - WBS	AMOUNT FYTEND AMT
1	1 EA TECH SUPPORT	ENGINE	46268	509AM W	HM1KX-59371	
	Additional Instructions: REPAIR FUE	L MANIFOLD COKING		02-713002-A	Z0-5208-004698	

Additional Requirements:

- √ Repair as necessary.
- Overhaul per Manufacturer's specification.
- V Documentation describing parts chapged, tests performed and quality control review must accompany the return repaired/overhualed part.
- V Parts will be installed on an aircraft operating under U.S. FAR Regulations. Documentation with returned part must indicate FAA assigned facility Identification and a maintenance release signed by an authorized individual. The Documentation part number must match the "part number" field of this repair order. If a new part is exchanged, documentation must indicate a returned new part and an FAA Form# 8130-3.

✓ Obtain Air Methods cost approval prior to initiating repair/overhaul.

Duane Saari
Repairs Administrator

APPROVAL

1) Please send 2 copies of invoice, 2) If shipping COD packing slip must be outside container & Fax Invoices at time of shipment to ACCTS PAYABLES (303)792-7420

Vendor must be compliant with FAA 14 CFR 121/FAR 121 Arti-drug and Alcohol Misuse Prevention Programs for Personnel Engaged in Specified Aviation Activities



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Site - TSC/ext	Year	Field Rep ID	FTEC/TSC Time
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TECHNICAL MAINTENANCE REPORT

					LEVEL
				•	1 2 3 5
NAME of	operato	orAir Methods	•		
Maintena	ance dat	e	from 07/25/2010	to 07/27/2	2010
TYPE OF	F ENGI	NE / VARIAN	T 2B1		
Maintena	ance on				<i>k</i>
		Engine		Serial no. 46268	\$
(*)		Module		Designation 70BMO32020	Serial no. 9853
		Module		Designation	Serial no.
		Accessory		Designation	
 Airfra	me / Va	riant AS350B	3		No. unknown
01					
Custo	omer Ali	Methods			
Name	e of tech	nnical contact	Jeff Carey	Tel.	
		nnical contact	·		USA
Maint	tenance	carried out a	·	Tel. Country	USA
Maint Reference MTI X29	tenance ce docu	carried out a	t Marana, AZ d issue number:	Country	USA nance manual X292N54502
Maint Reference MTI X29 Revision	ce docu 02M1300 n 19 mai	carried out a	t Marana, AZ d issue number:	Country	
Maint Reference MTI X29 Revision Reason	ce docu 92M1308 n 19 mai	mentation and B2 Revision named and 2009.	t Marana, AZ d issue number: o4 Jan 30 2008 and Ar	Country	
Maint Reference MTI X29 Revision Reason Reason	ce docu 02M1308 n 19 mai for rem	mentation and a 2 Revision named 30 2009. oval code:	t Marana, AZ d issue number: o4 Jan 30 2008 and Ar	Country	
Maint Reference MTI X29 Revision Reason Reason Suspect	ce docu 02M1306 n 19 mai for rem for rem	mentation and a 2 Revision named 30 2009. oval code:	t Marana, AZ d issue number: 04 Jan 30 2008 and Ar	Country	
Maint Reference MTI X29 Revision Reason Reason Suspect Purpose	ce docu 02M1300 19 mail	mentation and a Revision name of the Revision name	t Marana, AZ d issue number: 04 Jan 30 2008 and Ar	Country	nance manual X292N54502



Site - TSC/ext	Year	Field Rep ID	FTEC/TSC Time

TECHNICAL MAINTENANCE REPORT

	Comments concerning work carried out:
	Preliminary findings:
	Axial compressor is real hard to turn. Scraping noise heard while rotating.
	Findings at disassembly:
	Removal of module 3 from engine and after disassembly of the module 3 I found that the injection manifold had signs of fuel carbon in the labyrinth and injection wheel port.
	Work carried out:
	Removed and replaced injection manifold referencing the Arriel 2B1 Maintenance Technical Instruction X292M13032 no 4 Jan 30 2008. Removed injection manifold p/n 0292217030 s/n ANR 544SO and installed 0292217030 s/n 1956B. Reassembled engine 23366 referencing Arriel 2B1 Maintenance Manual no X292N54502 revision no19 march 30 2009. Engine rotates freely.
	1
	Test results:
	Performed ground run, oil pressure and vibration check. Ground run revealed a leak from engine drain while boost pump is on. Suspected HMU TU 43 seal. Customer to perform replacement of HMU seal. oil pressure and vibration check were acceptable.
l	

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Site - TSC/ext	Year	Field Rep ID	FTEC/TSC Time

TECHNICAL MAINTENANCE REPORT

Engine position (*)	on Serial no.	TSN Total hrs	TSO Hrs since overhaul	CSN Gas generator cycles since new	CSO Gas generator cycles since overhaul
single	46268	352	n/a	602.28	n/a

(*) Specify the position of the engine (right, left, single engine)

BEFORE MAINTENANCE

MODULAR CO	OMPOSITION					•
Designation	Part Number	Serial no.	Hrs since new	Hrs since overhaul	Gas generator cycles since overhaul	PT cycles since overhaul
M 01	70BMO12010	6442	N/A	N/A	N/A	N/A
M 02	70BMO22010	7653	N/A	N/A	N/A	N/A
M 03	70BMO32020	9853	N/A	N/A	N/A	N/A
M 04	70BMO41720	7618	N/A	N/A	N/A	N/A
M 05	70BMO52000	10546	N/A	N/A	N/A	N/A
(*)		N/A	N/A	N/A	N/A	N/A
(*)		MODULE	TIMES	UNKNOWN	N/A	N/A
(*)		CUSTOMER	DOES NOT	HAVE	ENGINE LOGS	AVAILABLE

AFTER MAINTENANCE

Designation	Part Number	Serial no.	Hrs since new	Hrs since overhaul	Gas generator cycles since overhaul	PT cycles since overhaul
M 01						
M 02						
M 03	SAME	AS	ABOVE			
M 04						
M 05						
(*)						
(*)						
(*)						

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Site - TSC/ext	Year	Field Rep ID	FTEC/TSC Time

(*) Line reserved for life-limited parts.

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Site - TSC/ext	Year	Field Rep ID	FTEC/TSC Time

TECHNICAL MAINTENANCE REPORT

• if

	scription		Part Number	Serial no.	Operating hrs	Reasons for removal	
JECTIC	N MANIFOL	D Installation	0292217030	861B	TSO 0.0	N/A	
	ON MANIFOL	.D Removal	0292217030	ANR2451	352	FUEL COKING	
		Installation				,	
		Removal					
		Installation			. /-		
		Removal					
		Installation					
		Removal					
		Installation					
		Removal					
Na	ame of opera	itor	Date	Signature		Stamp	
WAYNE YOUNG		NG	07-26-2010				
V							
	ame of Comp	any	Authorization	on Card no.	Exp	piry date	
Na	PTER SERV			on Card no.		Diry date	
Na HELICO	PTER SERV	/ICES OF	20010	00907			
Na HELICO pies of tl	PPTER SERV NEVADA	/ICES OF	20010	00907 nis report:	FEB		
HELICO	PPTER SER\ NEVADA he following elease certific	/ICES OF	20010 st be attached to the rm1, FAA Form1, s	00907 nis report:	FEB		
HELICO pies of ti	PPTER SER\ NEVADA he following elease certific	/ICES OF documents mus	20010 st be attached to the rm1, FAA Form1, s	00907 nis report:	FEB		
Na HELICO pies of the Re	PPTER SERN NEVADA he following elease certific est realization	documents muscate (EASA For	20010 st be attached to the m1, FAA Form1, s 0495) CE REPORT shall	00907 nis report:	FEB	11 2016	
Na HELICO pies of the Re	PPTER SERN NEVADA he following elease certific est realization	documents muscate (EASA For request (ENR	20010 st be attached to the m1, FAA Form1, s 0495) CE REPORT shall	00907 nis report:	FEB	11 2016	