

# LR Motor Shop Repairs

## **Job Number 101683**

Prepared for Dassault Falcon Jet (11751)

3801 East 10th st. Little rock AR 72203

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AC Inspection as Found - MOTOR SHOP LR

AC Inspection - Rev. 2: C1303200732

1.0



FolderID: 101683 FormID: 17511786



### **AC Inspection as Found**

Dassault Falcon Jet (11751)

3801 East 10th st. Little rock, AR 72203

Serial Number:

AC Inspection - Rev. 2

Location: MOTOR SHOP LR

Description: 40HP BALDOR 1800RPM 324TZ

C1303200732

Hi-Speed Job Number:	101683
Manufacturer:	Baldor
Product Number:	5013-0400-110
Spec/ID #:	12F902X277G1
Serial Number:	C1303200732
HP/kW:	40 (HP)
RPM:	1775 (RPM)
Frame:	324TZ
Voltage:	230 / 460
Current:	92/46
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.30
Enclosure:	TEFC
J-box Included:	Complete
Coupling/Sheave:	None
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Final
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: **a 4 - High** 

11 - Good

#### **Overall Condition**

Report Date 08/02/2023

Nameplate Picture



3. Photos of all six sides of the machine.





















4. Describe the Overall Condition of the Equipment as Received Grease covered. Dirty

		Grease covered, Dirty	
Ir	nitial	Mechanical/Electrical	
	5.	Does Shaft Turn Freely?	(Yes) Yes
	6.	Does Shaft Have Visible Damage?	(No) No
	7.	Assembled Shaft Runout	Inches
	-	Drive end - 0.001 Opposite Drive end -0.013	
	8.	Assembled Shaft End Play	inches
	9.	Air Gap Variation <10%	
	10.	Lead Condition	(P) Pass





12	. Lead Numbers		1-9
13	. Frame Condition		good
14	. Fan Condition		(P) Pass
15	. Broken or Missing Components		na
Initia	I Electrical Inspection		
16	. Insulation Resistance/Megger		Megohms
17	. Winding Resistance		
	1-2	1-3	2-3
• 18	. Perform Surge Test		(P) Pass
19	. Number of Stator Slots		Megohms
-	48		
20	. Stator Condition		dirty



21. Stator Thermistors/Ohms	ha
22. Stator Overloads/Ohms	na

### **Mechanical Inspection**

23. Drive End Bearing Brand







24.	Drive End Bearing Number-	6312
25.	Drive End Bearing Qty.	1
26.	Drive End Bearing Type	(Ball) Ball Bearing
27.	Drive End Lubrication Type	(Grease) Grease Lubricated
28.	Drive End Bearing Insulation or Grounding Device?	na
29.	Drive End Wavy Washer/Snap-Ring Other Retention Device?	spanned nut
30.	Drive End Bearing Condition	
-	Frosting	



31. Opposite Drive End Bearing Brand	n/a
32. Opposite Drive End Bearing Number-	6311
33. Opposite Drive End Bearing Qty.	1
34. Opposite Drive End Bearing Type	(Ball) Ball Bearing
35. Opposite Drive End Lubrication Type	(Grease) Grease Lubricated
36. Opposite Drive End Bearing Insulation or Grounding Device?	
37. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	wavy washer



38. Opposite Drive End Bearing Condition

Chemical burn



39. Drive End Seal

40. Opposite Drive End Seal

Rotor Inspection		
41.	Rotor Type/Material	(Aluminum Bar) Aluminum Barred Rotor
42.	Growler Test	(Pass) Pass
43.	Number of Rotor Bars	41
44.	Rotor Condition	fair
45.	List the Parts needed for the Repair Below	
	Possible Agis Ring depending on if connected to drive	
46.	Signature of Technician that Disassembled Motor	Trent

**Mechanical Fits- Rotor** 

47. Shaft Runout

**0.001 inches** 

Drive end-0.001 Opposite-.0013

- Recommend opposite drive end tight shaft

48.			
	Rotor Runout		
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
40	Operation of Eth Olegand to Baseline of Harvey		
49.	Coupling Fit Closest to Bearing House		400 Danisa
	0 Degrees	90 Degrees	120 Degrees
50.	Coupling Fit Closest to the end of the	Shaft	
	0 Degrees	60 Degrees	120 Degrees
			0 _ 0g.000
51.	Drive End Bearing Shaft Fit		
	0 Degrees	60 Degrees	120 Degrees
	2.3621	2.362	2.3621
52.	Drive End Bearing Shaft Fit Condition		(F) Fail
53.	Opposite Drive End Bearing Shaft Fit		
	0 Degrees	60 Degrees	120 Degrees
	2.165	2.1651	
54.	Opposite Drive End Bearing Shaft Fit	Condition	(F) Fail
55.	Shaft Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
	anical Fits- Bearing Housings		
56.	Drive End - Endbell Bearing Fit		
	0 Degrees	60 Degrees	120 Degrees
	5.1189	5.119	5.119
57.			(P) Pass
58.	Opposite Drive End - Endbell Bearing	Fit	
	0 Degrees	60 Degrees	120 Degrees
_	_	60 Degrees	120 Degrees
-	Bad	•	
59.	Bad Opposite Drive End - Endbell Bearing	•	120 Degrees (F) Fail
59.	Bad Opposite Drive End - Endbell Bearing Bearing Cap Condition	Fit Condition	
59.	Bad Opposite Drive End - Endbell Bearing	•	
59.	Bad Opposite Drive End - Endbell Bearing Bearing Cap Condition Drive End Bearing Cap	Fit Condition	
59. 60.	Bad Opposite Drive End - Endbell Bearing Bearing Cap Condition Drive End Bearing Cap	Fit Condition	
59. 60.	Bad Opposite Drive End - Endbell Bearing Bearing Cap Condition Drive End Bearing Cap End Bell Air Seal Fits	Fit Condition  Opposite Drive End Bearing Cap	
59. 60.	Bad Opposite Drive End - Endbell Bearing Bearing Cap Condition Drive End Bearing Cap  End Bell Air Seal Fits Drive End Air Seal List Machine Work Needed Below	Fit Condition  Opposite Drive End Bearing Cap	
<ul><li>59.</li><li>60.</li><li>61.</li></ul>	Bad Opposite Drive End - Endbell Bearing Bearing Cap Condition Drive End Bearing Cap End Bell Air Seal Fits Drive End Air Seal	Fit Condition  Opposite Drive End Bearing Cap	
<ul><li>59.</li><li>60.</li><li>61.</li></ul>	Bad Opposite Drive End - Endbell Bearing Bearing Cap Condition Drive End Bearing Cap End Bell Air Seal Fits Drive End Air Seal List Machine Work Needed Below Shaft, ODE endbell	Fit Condition  Opposite Drive End Bearing Cap	
<ul><li>59.</li><li>60.</li><li>61.</li><li>62.</li></ul>	Bad Opposite Drive End - Endbell Bearing Bearing Cap Condition Drive End Bearing Cap End Bell Air Seal Fits Drive End Air Seal List Machine Work Needed Below Shaft, ODE endbell	Fit Condition  Opposite Drive End Bearing Cap	(F) Fail
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61. 62. 63. <b>Dynar</b>	Bad Opposite Drive End - Endbell Bearing Bearing Cap Condition Drive End Bearing Cap  End Bell Air Seal Fits Drive End Air Seal  List Machine Work Needed Below Shaft, ODE endbell Technician	Fit Condition  Opposite Drive End Bearing Cap	(F) Fail
61. 62. 63. <b>Dynar</b>	Bad Opposite Drive End - Endbell Bearing Bearing Cap Condition Drive End Bearing Cap  End Bell Air Seal Fits Drive End Air Seal List Machine Work Needed Below Shaft, ODE endbell Technician	Fit Condition  Opposite Drive End Bearing Cap	(F) Fail

65. Initial Balance Readings

Drive End

Opposite Drive End

0.54

2.19



66. Final Balance Readings

Drive End

Opposite Drive End

0.18

0.38



67. Technician

Rewind

68. Core Test Results - Watts loss per Pound

Pre-Burnout Post Burnout

69. Core Hot Spot Test

Pre-Burnout Post-Burnout

- 70. Post Rewind Electrical Test-Insulation Resistance
- 71. Post Rewind Polarization Index

72.	Post Rewind Winding Resistance		
	1-2	1-3	2-3
73.	Post Rewind Surge Test		
74.	Post Rewind Hi-Pot		
75.	Technician		
Root	Cause of Failure		
76.	Failure locations		
	Bearings, shaft,Endbell		
77.	Root cause of failure		
	Bearings		
Mecha	anical Fits- Rotor - Post Repair		
78.	Shaft Runout Post Repair		
79.	Rotor Runout Post Repair		
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
80.	Coupling Fit Closest to Bearing Housi	ng Post Repair	
	0 Degrees	90 Degrees	120 Degrees
81.	Coupling Fit Closest to the end of the	•	
	0 Degrees	60 Degrees	120 Degrees
82.	Drive End Bearing Shaft Fit Post Repa		
	0 Degrees	60 Degrees	120 Degrees
	2.3627	2.3628	2.3628



83.	3. Opposite Drive End Bearing Shaft Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
	2.166	2.1658	2.1659



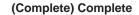
84.	Shaft Air Seal Fits Post Repair			
	Drive End Air Seal	Opposite Drive End Air Seal		
85.	Shaft Repair Sign-off			
Mecha	Mechanical Fits- Bearing Housings - Post Repair			
86.	Drive End - Endbell Bearing Fit Post F	Repair		
	0 Degrees	60 Degrees	120 Degrees	
87.	87. Opposite Drive End - Endbell Bearing Fit Post Repair			
	0 Degrees	60 Degrees	120 Degrees	
	4.7251	4.7252	4.7252	



88.	Bearing Cap Condition Post Repair	
	Drive End Bearing Cap	Opposite Drive End Bearing Cap
89.	End Bell Air Seal Fits Post Repair	
	Drive End Air Seal	Opposite Drive End Air Seal
90.	End Bell Repair Sign-off	
Assei	nbly	



92. Photograph All Major Components prior to assembly



















	93.	Final Insulation Resistance Test		0.224 Megohms
	94.	Assembled Shaft Endplay		inches
	95.	Assembled Shaft Runout		0.002 inches
	96.	Test Run Voltage		
		Volts	Volts	Volts
		460	460	460
	97.	Test Run Amperage		
		Amps	Amps	Amps
		18	17	18
98. Drive End Vibration Readings			Per Second	
		Horizontal	Vertical	Axial
		0.002	0.002	0.001
	99. Opposite Drive End Vibration Readings - Inches Per Second			
		Horizontal	Vertical	Axial
		0.003	0.002	0.002
	100.	Ambient Temperature - Fahrenheit		
	101.	Drive End Bearing Temps - Fahrenheit		
		5 Minutes	10 Minutes	15 Minutes
	102.	Opposite Drive End Bearing Temps - Fahrenheit		
		5 Minutes	10 Minutes	15 Minutes
	400	December Final Condition will Bit		
	103.	Document Final Condition with Picture	s after paint	







104. Final Pics and QC Review

 $\mathsf{Cw}$ 

Co sign: Gary Moore





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- 5. <u>DELIVERY OF GOODS AND/OR SERVICES.</u> Unless otherwise identified in the quotation, all shipments are F.O.B. Hi-Speed's warehouse and the title to and all risk of loss with respect to any goods shipped shall pass to Buyer when such goods are delivered to the carrier at Hi-Speed's warehouse. Hi-Speed will use its best efforts to affect delivery by the date or dates specified in the quotation. However, Hi-Speed shall not be liable for delay in or failure to make shipment, or to perform services, by any identified date for any reason whatsoever, including but not limited to, causes beyond its reasonable control, such as strikes, fires, floods, epidemics, quarantines, restrictions, severe weather, embargos, acts of God, or public enemy, war, riot, delays in transportation or the inability to obtain necessary labor, materials or manufacturing facilities.
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- 8. WARRANTIES. Hi-Speed warrants that all goods shall conform in all material aspects to the goods identified in the quotation to Buyer and/or purchase order, and Hi-Speed makes to Buyer the manufacturer's express warranty for any goods sold to Buyer, which is offered by the manufacturer at the time of acceptance of any quotation by Buyer. This warranty is conditioned upon the installation, operation, and maintenance of the goods in accordance with the manufacturer's recommendations and/or standard industry practice and the goods at all times being operated or used under normal operating conditions for which they were designed. Hi-Speed, at its sole option, will repair or

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- 10. <u>SEVERABILITY.</u> The partial or complete invalidity of any provision of these Standard Terms and Conditions shall not affect the enforceability of the remainder of these Standard Terms and Conditions. If any provision is found to be invalid or unenforceable, that portion shall be modified to make it enforceable or shall be stricken and the remainder of these Standard Terms and Conditions shall enforced.
- 11. **GOVERNING LAW AND JURISDICTION.** Any controversy arising out of any quotation, the purchase order, the goods sold or delivered, repair or replacement thereof, or any services provided pursuant to any quotation or any purchase order, or these Standard Terms and Conditions shall be governed by the laws of the state of Tennessee without regard to any choice of law provisions and any cause of action related in any manner thereto shall be brought only in the state or federal courts of Shelby County, Tennessee.
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- 13. FORCE MAJEURE. Neither party shall be responsible for any delay or failure in performance of any party of the quotation, purchase order or these Standard Terms and Conditions to the extent that such delays or failures are caused by fire, flood, earth quake, explosion, war, embargo, government requirement, civil or military authority, acts of God, or any other circumstances beyond its reasonable control and not involving any fault or negligence on the party affected ("Condition"). If any such Condition occurs, the party delayed or unable to perform shall promptly give written notice to the other party and, if such Condition remains at the end of thirty (30) days, the party affected by the other party's delay and inability to perform may elect to (i) terminate such order or part thereof, or (ii) suspend the order for the duration of the Condition, if the Buyer is the suspending party, buy elsewhere comparable material to be sold under the order and apply to any commitment the purchase price of such purchase, and resume performance of the order once the Condition ceases, with an option in the affected party to extend the period of this order up to the length of the time the Condition endures.
- 14. <u>NONWAIVER.</u> No course of dealing or failure of either party to strictly enforce any term, right, or condition of these Standard Terms and Conditions will be construed as a waiver of such term, right or condition. Any waiver by Hi-Speed will only be in writing and will waive no succeeding breach of a term, right or condition.
- 15. **ASSIGNMENT.** The rights and obligations of the parties shall neither be assigned nor delegated without the prior written consent of the other party. However, any party may assign or delegate its respective rights and obligations, in whole or in part, (i) to any subsidiary, (ii) pursuant to other financing, merger or reorganization or (iii) pursuant to any sale or transfer of substantially all of the assets of the assigning party. These Standard Terms and Conditions shall bind the heirs, successors and assigns of the parties hereto.
- 16. NO INDIVIDUAL LIABILITY. Notwithstanding any other agreement to the contrary, the Buyer agrees that in no event will the Buyer hold and HI-Speed owner, director, officer or employee personally liable for unintentional tortious conduct or conduct that constitutes the breach of any contract between HI-Speed and the Buyer, even if the HI-Speed owner, director, officer or employee is or could be construed to be a party to such contract.