



KEEPING YOUR FACILITY UP TO SPEED
— EVERY DAY SINCE 1946 —

LR Motor Shop Repairs

Job Number 102710

Prepared for Dassault Falcon Jet (11751)

3801 East 10th st.
Little rock AR 72203

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Hi-Speed Industrial Service
7030 Ryburn Dr
Millington, Tn 38053
901-873-5300

AC Inspection as Found

Dassault Falcon Jet (11751)

3801 East 10th st.
Little rock, AR 72203

FolderID: 102710
FormID: 19918708

AC Inspection - Rev. 2

Location: MOTOR SHOP LR

Serial Number: LBKL JK

Description: 40HP RELIANCE 1775RPM

Hi-Speed Job Number: 102710

Manufacturer: Reliance

Spec/ID #: P32G3345

Serial Number: LBKL JK

HP/kW: 40 (HP)

RPM: 1775 (RPM)

Frame: 324T

Voltage: 230 / 460

Current: 95.4/47.7 (Amps)

Phase: Three

Hz: 60 (Hz)

Service Factor: 1.15

Enclosure: TEFC

of Leads: 9

J-box Included: Complete

Coupling/Sheave: None

Bearing RTDs: No

Stator RTDs: No

Repair Stage: Final

Rewind: No

Shaft Machined Fit Repairs
Required: No

Bearing Housing Machined
Fit Repairs Required: Yes

Heaters: No

Winding Type : Random Wound

Bearing Type: Rolling Element

Priorities Found: ● 2 - High ● 10 - Good

Overall Condition

1. Report Date

04/02/2024

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Printed on 5/2/2024

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1.0

[illegible]

The top photograph shows a large, green, three-phase electric motor with a cooling fan, mounted on a metal stand. The bottom photograph is a close-up of the motor's shaft and coupling.



Printed on 5/2/2024







4. Describe the Overall Condition of the Equipment as Received

Dirty

Initial Mechanical/Electrical

5. Does Shaft Turn Freely?	(Y) Yes
6. Does the shaft require T.I.R in Lathe to identify additional repairs?	(No) No
7. Does Shaft Have Visible Damage?	(No) No
8. Assembled Shaft Runout	0.002 Inches
9. Assembled Shaft End Play	inches
Na	

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10. Air Gap Variation <10%	Na
11. Lead Condition	(P) Pass
	
12. Lead Length	12 Inches
13. Does it have Lugs?, If so what is the Stud Size?	(No) No
14. Lead Numbers	T1-T9
15. Frame Condition	pass
16. Fan Condition	(P) Pass
	
17. Broken or Missing Components	front grease fit is missing
Initial Electrical Inspection	

18. Insulation Resistance/Megger

Megohms

Coil 2 (Ohms)	0.261 Corr: 0.2...	
Coil 3 (Ohms)	0.262 Corr: 0.2...	
Megohm Stat...	PASS	No Test
Volts (V)	504	
I(μA)	0.0613	
Resist	8225	
At 40°C	2220	
PI Status	No Test	No Test
Volts (V)		
Nameplate	Application	Results Sum

19. Winding Resistance

1-2

1-3

2-3

Test Time	12:49:03 PM	12:37:56 PM
IR Temp Com...	Thermoplastic	None
Resist Status...	PASS	No Test
Bal L1 (Ohms)		
Bal L2 (Ohms)		
Bal L3 (Ohms)		
L1-L2 (Ohms)	0.174 Corr: 0.1...	
L2-L3 (Ohms)	0.174 Corr: 0.1...	
L3-L1 (Ohms)	0.175 Corr: 0.1...	
Max Delta R %	0.471	
Coil 1 (Ohms)	0.260 Corr: 0.2...	
Coil 2 (Ohms)	0.261 Corr: 0.2...	
Coil 3 (Ohms)	0.262 Corr: 0.2...	
Megohm Stat...	PASS	No Test
Nameplate	Application	Results Summary

20. Perform Surge Test

(P) Pass

Tools		Help	
102710		2	
Data	Tests	Trending	
Test ID	480V w/dTRK101HP Step	Edit Test ID	Enable Calibration
For	480 Volt	Motors	Run Auto Test
Temperature/Resistance Tests			
Temperature	Manual	Tested	
Resistance	3 Lead/Low V		
DC Tests			
MegOhm	500 Volts	Pass	
OFF	BA Low	500 Volts	
Step Voltage	1500 Volts	Pass	
Surge Test			
Surge	1500 Volts	Pass	

21. Number of Stator Slots

48

22. Stator Condition

needs cleaned

23. Stator Thermistors/Ohms

Na

24. Stator Overloads/Ohms

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Na

Mechanical Inspection

25. Drive End Bearing Brand	na
26. Drive End Bearing Number-	6311
27. Drive End Bearing Qty.	1
28. Drive End Bearing Type	(Ball) Ball Bearing
29. Drive End Lubrication Type	(Grease) Grease Lubricated
30. Drive End Bearing Insulation or Grounding Device?	

Na

31. Drive End Wavy Washer/Snap-Ring Other Retention Device?	na
32. Drive End Bearing Condition	

Has metal fatigue and fluting



33. Opposite Drive End Bearing Brand	na
34. Opposite Drive End Bearing Number-	6311
35. Opposite Drive End Bearing Qty.	1
36. Opposite Drive End Bearing Type	(Ball) Ball Bearing
37. Opposite Drive End Lubrication Type	(Grease) Grease Lubricated
38. Opposite Drive End Bearing Insulation or Grounding Device?	






Na

39. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	wavy washer
40. Opposite Drive End Bearing Condition	


Signs of contamination



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41. Drive End Seal	na	
42. Opposite Drive End Seal	na	
Rotor Inspection		
43. Rotor Type/Material	(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast	
44. Growler Test	(Pass) Pass	
45. Number of Rotor Bars	42	
46. Rotor Condition	pass	
47. List the Parts needed for the Repair Below 6311x2 6311 bearing sleeves for end bells		
48. Signature of Technician that Disassembled Motor	Cw	
		
Mechanical Fits- Rotor		
49. Shaft Runout	0.001 inches	
50. Rotor Runout		
Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
 Na		
51. Coupling Fit Closest to Bearing Housing		
0 Degrees	90 Degrees	120 Degrees
 Na		
52. Coupling Fit Closest to the end of the Shaft		
0 Degrees	60 Degrees	120 Degrees
 Na		
53. Drive End Bearing Shaft Fit		
0 Degrees	60 Degrees	120 Degrees
2.1655	2.1654	2.1655
54. Drive End Bearing Shaft Fit Condition	(P) Pass	
55. Opposite Drive End Bearing Shaft Fit		
0 Degrees	60 Degrees	120 Degrees
2.1654	2.1654	2.1655
56. Opposite Drive End Bearing Shaft Fit Condition	(P) Pass	
57. Shaft Air Seal Fits		
Drive End Air Seal	Opposite Drive End Air Seal	
 Na		
Mechanical Fits- Bearing Housings		
58. Drive End - Endbell Bearing Fit		
0 Degrees	60 Degrees	120 Degrees
4.7257	4.7259	4.7254
59. Drive End - Endbell Bearing Fit Condition	(F) Fail	

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60. Opposite Drive End - Endbell Bearing Fit		
0 Degrees	60 Degrees	120 Degrees
4.7262	4.7257	4.7259
61. Opposite Drive End - Endbell Bearing Fit Condition		(F) Fail
62. Bearing Cap Condition		
Drive End Bearing Cap	Opposite Drive End Bearing Cap	
Na		
63. End Bell Air Seal Fits		
Drive End Air Seal	Opposite Drive End Air Seal	
Na		
64. List Machine Work Needed Below		
Both end bell bearing fits		
65. Technician		Cw
		
Witnessed by: TRH		
Root Cause of Failure		
66. Failure locations	Bearings and end bell bearing fits	
67. Root cause of failure	Bearings show signs of contamination and metal fatigue and the end bells have wear in the bearing fits	
Dynamic Balance Report		
68. Rotor Weight and Balance Grade		
Rotor Weight	Balance Grade	



69. Initial Balance Readings	
Drive End	Opposite Drive End
.40	.21

70. Final Balance Readings		
Drive End	Opposite Drive End	
.26	.27	
71. Technician		RW
		
Mechanical Fits- Bearing Housings - Post Repair		
72. Drive End - Endbell Bearing Fit Post Repair		
0 Degrees	60 Degrees	120 Degrees
4.7248	4.7248	4.7248



73. Opposite Drive End - Endbell Bearing Fit Post Repair		
0 Degrees	60 Degrees	120 Degrees
4.7247	4.7247	4.7247



74. Bearing Cap Condition Post Repair		
Drive End Bearing Cap		Opposite Drive End Bearing Cap
75. End Bell Air Seal Fits Post Repair		
Drive End Air Seal		Opposite Drive End Air Seal

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76. End Bell Repair Sign-off

RW

RW

Assembly

77. QC Check All Parts for Cleanliness Prior to Assembly

RW

RW

78. Photograph All Major Components prior to assembly

(Complete) Complete





79. Final Insulation Resistance Test			Megohms
🗨️ HP Passed			
80. Assembled Shaft Endplay			inches
🟢 81. Assembled Shaft Runout			0.0002 inches
82. Test Run Voltage			
Volts	Volts	Volts	
455	457	456	

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Co witness CRW

With fan

83. Test Run Amperage		
Amps	Amps	Amps
15.5	15.9	15.8



With fan

84. Drive End Vibration Readings - Inches Per Second		
Horizontal	Vertical	Axial
0.02	0.01	0.02
85. Opposite Drive End Vibration Readings - Inches Per Second		
Horizontal	Vertical	Axial
0.03	0.01	0.02
86. Ambient Temperature - Fahrenheit		
87. Drive End Bearing Temps - Fahrenheit		
5 Minutes	10 Minutes	15 Minutes
88. Opposite Drive End Bearing Temps - Fahrenheit		
5 Minutes	10 Minutes	15 Minutes
89. Document Final Condition with Pictures after paint		

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90. Final Pics and QC Review

RW

Handwritten signature

Co witness TRH



Hi-Speed Industrial Service
7030 Ryburn Dr
Millington, Tn 38053
901-873-5300

Field Service Ticket

FolderID: 102710
FormID: 20160134

Dassault Falcon Jet (11751)
3801 East 10th st.
Little rock, AR 72203

Priorities Found:

Job Information

- | | |
|---------------------------------|------------------|
| 1. Hi-Speed Job Number | 102238 |
| 2. Asset Type | fan motor |
| 3. Make | |
| 4. Model | |
| 5. Serial Number | |
| 6. Customer Asset ID/Asset Name | |

Service Call Details

7. Service Objectives
Install motor to fan base
8. Services Performed
We raised motor to base, mounted it and tightened the belts. Used laser on pulleys to align belts. Test ran motor.



9. Service Technician Recommendations

Approval Signatures

- | | |
|----------------------------------|--------------------|
| 10. Service Technician Signature | Trevor Hall |
|----------------------------------|--------------------|

- | | |
|------------------------|------------------------|
| 11. Customer Signature | Phillip Baldein |
|------------------------|------------------------|

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