

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

> FolderID: 103469 FormID: 21493147

AC Inspection as Found

Mondi

3501 Jefferson Pkway Pine Bluff, AR 71602

AC Inspection - Rev. 2

LITTLE ROCK MOTOR SHOP Location:

Serial Number: 8566150229

Description: 15KW INGERSOLL-RAND

Hi-Speed Job Number:	103469
Manufacturer:	Ingersoll-Rand
Spec/ID #:	CCH: 23658566
Serial Number:	8566150229
HP/kW:	15 (kW)
RPM:	970 (RPM)
Voltage:	Other
Phase:	Three
Hz:	50 (Hz)
Service Factor:	1.15
Enclosure:	TEFC
# of Leads:	6
J-box Included:	Complete
Coupling/Sheave:	Coupling
Date Received:	09/03/2024
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Final
Rewind:	No
Shaft Machined Fit Repairs Required:	No
Bearing Housing Machined Fit Repairs Required:	No
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: **a** 2 - High

11 - Good

Overall Condition

Report Date

09/03/2024



3. Photos of all six sides of the machine.

































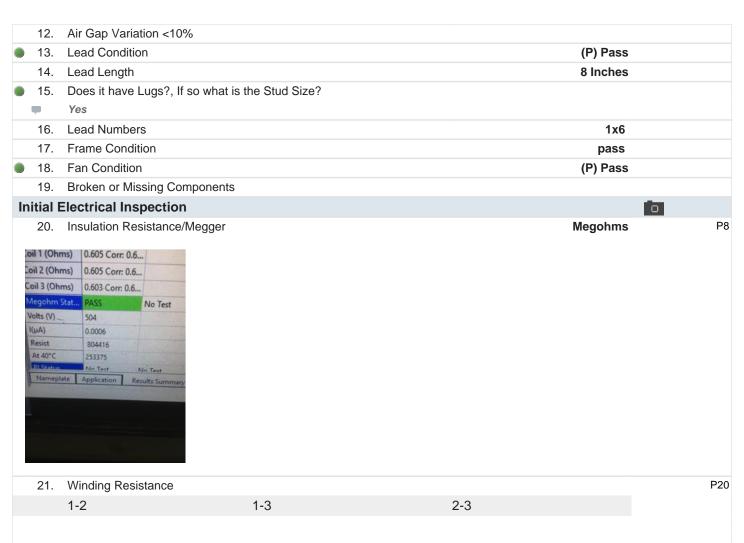


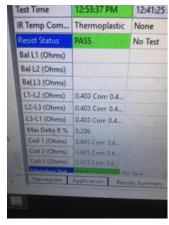
Describe the Overall Condition of the Equipment as Received
 Dirty

5. Distance from the end of the shaft to the Coupling/Sheave inchesFlush

6. Report Date [COPY]

In	itial I	Mechanical/Electrical	
	7.	Does Shaft Turn Freely?	(Y) Yes
	8.	Does the shaft require T.I.R in Lathe to identify additional repairs?	(No) No
	9.	Does Shaft Have Visible Damage?	(No) No
	10.	Assembled Shaft Runout	Inches
	11.	Assembled Shaft End Play	inches







23.	Number of Stator Slots	36	
24.	Stator Condition	pass	
25.	Stator Thermistors/Ohms		
26.	Stator Overloads/Ohms		

Mecha	nical Inspection		ō
27.	Drive End Bearing Brand	SKF	
28.	Drive End Bearing Number-	6211	
29.	Drive End Bearing Qty.	1	
30.	Drive End Bearing Type	(Ball) Ball Bearing	
31.	Drive End Lubrication Type	(Grease) Grease Lubricated	
32.	Drive End Bearing Insulation or Grounding Device?		
33.	Drive End Wavy Washer/Snap-Ring Other Retention Device?	2 snap rings	
34.	Drive End Bearing Condition		P83

Signs of fluting



35.	Opposite Drive End Bearing Brand	NSK	
36.	Opposite Drive End Bearing Number-	6309	
37.	Opposite Drive End Bearing Qty.	1	
38.	Opposite Drive End Bearing Type	(Ball) Ball Bearing	
39.	Opposite Drive End Lubrication Type	(Grease) Grease Lubricated	
40.	Opposite Drive End Bearing Insulation or Grounding Device?		
41.	Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	wavy washer	

Signs of fluting



	43.	Drive End Seal	55-70-8	
	44.	Opposite Drive End Seal	45-68-8	
R	otor I	nspection		
	45.	Rotor Type/Material	(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast	
	46.	Growler Test	(Pass) Pass	
	47.	Number of Rotor Bars	33	
	48.	Rotor Condition	pass	
	49.	List the Parts needed for the Repair Below		
		6211 6309 Seal/ 55-70-8 Seal/ 45-68-8		
	50.	Signature of Technician that Disassembled Motor	Cw	

Mais

Mecha	nical Fits- Rotor			
51.	Shaft Runout		inches	
52.	Rotor Runout			
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing	
53.	Coupling Fit Closest to Bearing H	ousing		
	0 Degrees	90 Degrees	120 Degrees	
54.	Coupling Fit Closest to the end of	the Shaft		
	0 Degrees	60 Degrees	120 Degrees	
55.	Drive End Bearing Shaft Fit			
	0 Degrees	60 Degrees	120 Degrees	
	2.1658	2.1658	2.1658	
56.	Drive End Bearing Shaft Fit Cond	ition	(P) Pass	

	57.	Opposite Drive End Bearing Shafe	Fit		
		0 Degrees	60 Degrees	120 Degrees	
		1.7717	1.7717	1.7717	
	58.	Opposite Drive End Bearing Shafe	Fit Condition		(P) Pass
	59.	Shaft Air Seal Fits			
		Drive End Air Seal	Opposite Drive End Air Seal		
Me	echai	nical Fits- Bearing Housings			
	60.	Drive End - Endbell Bearing Fit			
		0 Degrees	60 Degrees	120 Degrees	
		3.9388	3.9386	3.9386	
	61.	Drive End - Endbell Bearing Fit Co	ondition		(P) Pass
	62.	Opposite Drive End - Endbell Bea	ring Fit		
		0 Degrees	60 Degrees	120 Degrees	
		3.9383	3.9383	3.9383	
	63.	Opposite Drive End - Endbell Bea	ring Fit Condition		(P) Pass
	64.	Bearing Cap Condition			
		Drive End Bearing Cap	Opposite Drive End Bearing Cap		
	65.	End Bell Air Seal Fits			
		Drive End Air Seal	Opposite Drive End Air Seal		
	66.	List Machine Work Needed Below	1		
	67.	Technician			Cw
		Mis			
		1/1/1/1/2	_		
		1// - 22			
	-	Co sign: RRW			
Ro	oot C	ause of Failure			
	68.	Failure locations			
		Bearings			
	69.	Root cause of failure			
		Contamination and fluting			
D۱	/nam	ic Balance Report			Ō
,	70.	Rotor Weight and Balance Grade			
		Rotor Weight	Balance Grade		

Drive End

Opposite Drive End



72. Final Balance Readings

Drive End

Opposite Drive End



73. Technician Cw

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Assembly 74. QC Check All Parts for Cleanliness Prior to Assembly

See below.

75. Photograph All Major Components prior to assembly

P17

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P27















76. •	Final Insulation Resistance Test Pass			Megohms	
77.	Assembled Shaft Endplay			0 inches	
78.	Assembled Shaft Runout		0.	001 inches	
79.	Test Run Voltage				P56
	Volts	Volts	Volts		
	459	458	461		



80.	Test Run Amperage		
	Amps	Amps	Amps
	11.2	11	11
81.	Drive End Vibration Readings - In	ches Per Second	
	Horizontal	Vertical	Axial
	0.02	0.02	
82.	Opposite Drive End Vibration Rea	adings - Inches Per Second	
	Horizontal	Vertical	Axial
	0.02	0.02	0.01
83.	0.02 Ambient Temperature - Fahrenhe		0.01
83. 84.		it	0.01
	Ambient Temperature - Fahrenhe	it	0.01 15 Minutes
	Ambient Temperature - Fahrenhe Drive End Bearing Temps - Fahre	enheit	
	Ambient Temperature - Fahrenhe Drive End Bearing Temps - Fahre	enheit 10 Minutes	
84.	Ambient Temperature - Fahrenhe Drive End Bearing Temps - Fahre 5 Minutes	enheit 10 Minutes	

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T- Holling

Witness: RW

87. Final Pics and QC Review







