

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

> FolderID: 103007 FormID: 20477021

## AC Inspection as Found Novus Arkansas, LLC (11612)

7920 Sloan Drive Little Rock, AR 72206

AC Inspection - Rev. 2

Serial Number:

Location:

Description: 1.5HP CARMAN MOTOR REPAIR

LR Motor Shop

Hi-Speed Job Number:	103007
Manufacturer:	Other
Spec/ID #:	CDX18-4400-DP
HP/kW:	1.5 (HP)
RPM:	4400 (RPM)
Frame:	50
Voltage:	230 / 460
Current:	3.8/1.9
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.15
Enclosure:	DP
# of Leads:	6
J-box Included:	Complete
Coupling/Sheave:	None
Date Received:	05/23/2024
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: 15 - Good

**Overall Condition** 

0

06/04/2024 Report Date



3. Photos of all six sides of the machine.





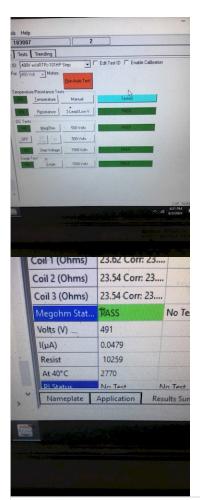


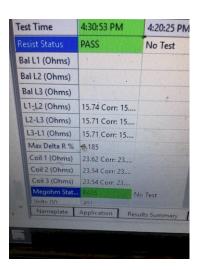






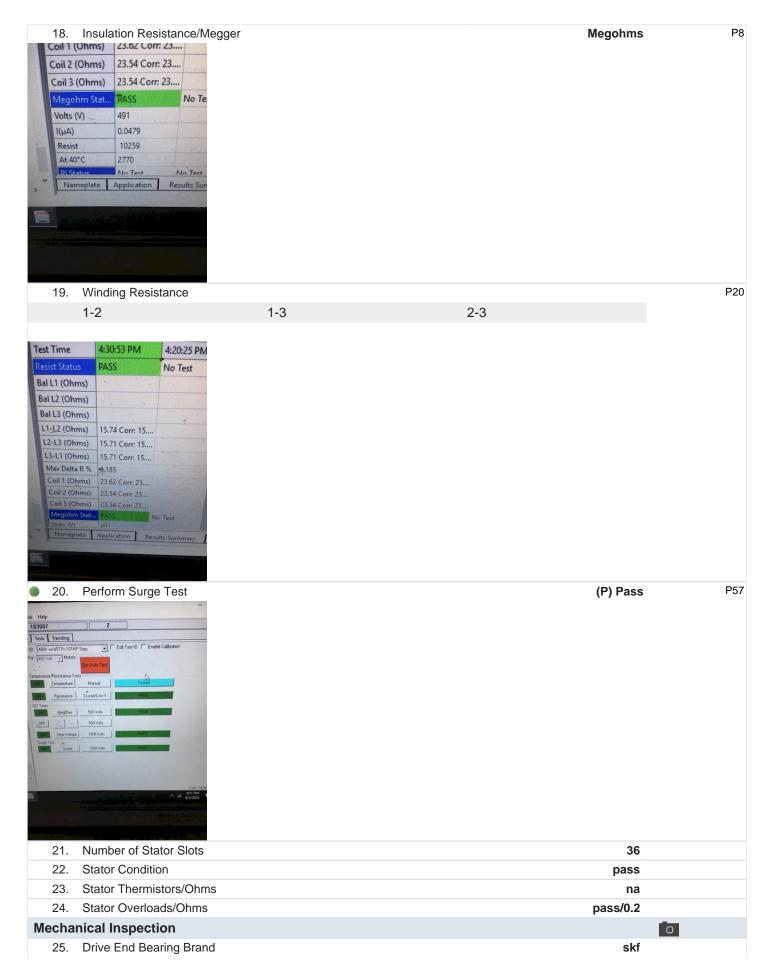






4. Describe the Overall Condition of the Equipment as Received Dirty

In	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	Inches	
	-	Na		
	9.	Assembled Shaft End Play	inches	
	•	Na		
	10.	Air Gap Variation <10%		
	•	Na		
	11.	Lead Condition	(P) Pass	
	12.	Lead Length	6 Inches	
	13.	Does it have Lugs?, If so what is the Stud Size?		
	•	Yes		
	14.	Lead Numbers	1-6	
	15.	Frame Condition	pass	
	16.	Fan Condition	(N) NA	
	17.	Broken or Missing Components		
	•	Na		
In	Initial Electrical Inspection			



26.	Drive End Bearing Number-	NJ2308 EC/C4	
27.	Drive End Bearing Qty.	1	
28.	Drive End Bearing Type	(Roller) Roller Bearing	
29. Drive End Lubrication Type (Grease) Grease Lubricated			
30.	30. Drive End Bearing Insulation or Grounding Device?		
-	Na		
31.	Drive End Wavy Washer/Snap-Ring Other Retention Device?	na	
32.	32. Drive End Bearing Condition		P82



		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	skf	Opposite Drive End Bearing Brand
	NJ2308EC/C4	Opposite Drive End Bearing Number-
	1	Opposite Drive End Bearing Qty.
	(Roller) Roller Bearing	Opposite Drive End Bearing Type
	(Grease) Grease Lubricated	Opposite Drive End Lubrication Type
	na	Opposite Drive End Bearing Insulation or Grounding Device?
	na	Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?
P118		Opposite Drive End Bearing Condition

Replace



41.	Drive End Seal	na
42.	Opposite Drive End Seal	na
Rotor Inspection		

## Rotor inspection

43. Rotor Type/Material (Squirrel Aluminum) Squirrel
Cage Aluminum Die Cast

44. Growler Test (Pass) Pass

4.5	Novel as of Datas D			
45.	Number of Rotor Bars		46	
46.	Rotor Condition		pass	
47.	List the Parts needed for the Repai	ır Below		
	NJ2308EC/C4 X2 Shaker grease			
48.	-		Cw	
,	Merin			
(	N V -0-0			
Mecha	nical Fits- Rotor			
49.	Shaft Runout		inches	
-	Na			
50.	Rotor Runout			
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing	
	-			
-	Na			
51.	Coupling Fit Closest to Bearing Ho	using		
	0 Degrees	90 Degrees	120 Degrees	
-	Na			
52.	Coupling Fit Closest to the end of t	he Shaft		
	0 Degrees	60 Degrees	120 Degrees	
-	Na			
53.	Drive End Bearing Shaft Fit			
	0 Degrees	60 Degrees	120 Degrees	
	1.5753	1.5753	1.5753	
<b>5</b> 4.	Drive End Bearing Shaft Fit Condition		(P) Pass	
55.	Opposite Drive End Bearing Shaft	Fit		
		60 Degrees	120 Degrees	
		1.5755	1.5754	
<b>5</b> 6.	Opposite Drive End Bearing Shaft	Fit Condition	(P) Pass	
57.	Shaft Air Seal Fits			
	Drive End Air Seal	Opposite Drive End Air Seal		
-	Na			
	nical Fits- Bearing Housings			
58.	Drive End - Endbell Bearing Fit			
	_	60 Degrees	120 Degrees	
		3.5427	3.5426	
<b>9</b> 59.	Drive End - Endbell Bearing Fit Co		(P) Pass	
60.	Opposite Drive End - Endbell Bear	•		
	0 Degrees	60 Degrees	120 Degrees	

3.5427

(P) Pass

3.5427

Opposite Drive End - Endbell Bearing Fit Condition

3.5427

	62.	Bearing Cap Condition		
		Drive End Bearing Cap	Opposite Drive End Bearing Cap	
_		Pass		
	63.	End Bell Air Seal Fits		
		Drive End Air Seal	Opposite Drive End Air Seal	
	_			
	C 4	Na		
	64.	List Machine Work Needed Below Na		
	65.	Technician		Cw
		///		
	/	Mrin		
	(			
		Co sign: RRW		
Ro	ot C	ause of Failure		
	66.	Failure locations		
		Bearings		
	67.	Root cause of failure		
		Contamination		
Dy	nam	ic Balance Report		
	68.	Rotor Weight and Balance Grade		
		Rotor Weight	Balance Grade	
	69.	Initial Balance Readings		
		Drive End	Opposite Drive End	
	70.	Final Balance Readings		
		Drive End	Opposite Drive End	
	71.	Technician		
As	sem	bly		Ō
	72.	QC Check All Parts for Cleanlines	s Prior to Assembly	
	73.	Photograph All Major Components	prior to assembly	
	74.	Final Insulation Resistance Test		Megohms
	75.	Assembled Shaft Endplay		inches
	76.	Assembled Shaft Runout		inches

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Volts Volts Volts



78. Test Run Amperage

Amps Amps Amps

79. Drive End Vibration Readings - Inches Per Second

Horizontal Vertical Axial

80. Opposite Drive End Vibration Readings - Inches Per Second

Horizontal Vertical Axial

81. Ambient Temperature - Fahrenheit

82. Drive End Bearing Temps - Fahrenheit

5 Minutes 10 Minutes 15 Minutes

83. Opposite Drive End Bearing Temps - Fahrenheit

5 Minutes 10 Minutes 15 Minutes

Ull

84. Document Final Condition with Pictures after paint

85. Final Pics and QC Review

Terrence Holland P131

Co sign: CRW













