



MILLINGTON, TN

LITTLE ROCK, AR

Job Information

Job #: 140239

Date: July 25, 2019

Priority: 3

Authorized OT: No

Authorized by:

Customer Information

Name: Hi-Speed (LR)

Reason:

Contact:

Motor#:

PO#:

Application: Direct Drive

Special notes:

Name Plate Information

Manufacturer: U.S Electrical

Enclosure : Totally Enclosed
Fan Cooled

Enclosure Type image

Serial#: R932-
A11A268R032M

Model#: R932

Service Factor: 1.15

Frame: 445T

Horsepower/kW: 150

Rated RPM: 1780

Rated Amps: 174/211

Rated Voltage: 460/380

Phase: 3

Cycles: 60

Special design: No



Nameplate

DE

ODE

F1

F2

Top



WEST TENNESSEE
7030 Ryburn Drive
Millington, TN 38053
Phone 901-873-5300
Fax 901-873-5301

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6812 Lindsey Rd.
Little Rock, AR 72206
Phone 501-375-9178
Fax 501-375-4254

Mechanical Inspection

Inspect bolt holes and fasteners. Validate correct fasteners.

Does the shaft turn freely?: Yes

Contaminant(s): Water

Shaft rotation: Bi-directional

Contaminant(s) Amt: Other

Shaft grounding device present?: No

Contaminant Image:



Type of grounding device: N/A

Shaft runout(TIR-Inbound): .001

Bearings DE: Worn

Bearings DE make: NACHI

Insulated: No

Bearing DE Size: 6220

Bearings ODE: Worn

Bearings ODE make: NACHI

Bearing Type: Ball

Bearing ODE Size: 6313

Bearings Retainer: Yes

Thermal Protection: Yes

Retainer condition: Good

Thermal Protection Type: —

Bearing Type Image



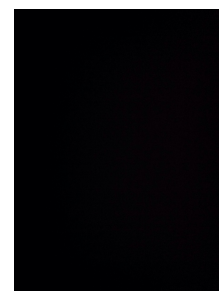
Bearing Make Image



Bearing Retainer Image



Thermal Protection



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Mechanical Inspection (Continued)

Lubrication Type: Grease

Thermal Protection device DE: —

Lubrication brand inbound: Mobile Polyrex EM

Thermal Protection device ODE: —

Lubrication brand outbound: Mobile Polyrex EM

Grease Amt DE: Full

Grease Cond. DE: Watery

Grease Amt ODE: Full

Grease Cond. ODE: Watery

Seals DE type: N/A

Seals Image:

Seals DE size: N/A

Seals DE (inbound) condition : N/A

Seals ODE type: Slinger

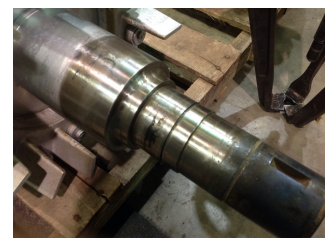
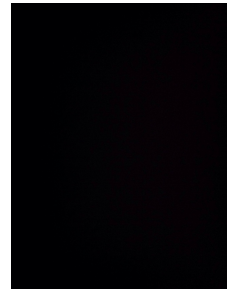
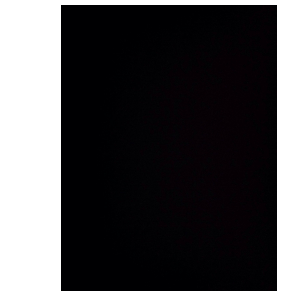
Seals Image 2:

Seals ODE size: N/A

Seals ODE (inbound) condition : N/A

Shaft damage cause: None

Shaft Image:



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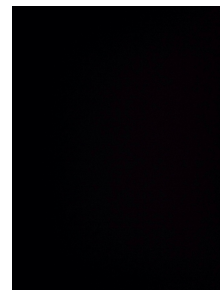
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Mechanical Inspection (Continued)

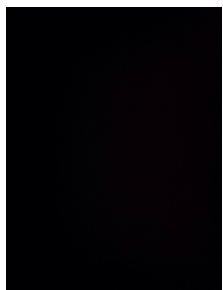
Brg. Image:



Bushings/sleeves image:



Water jacket: N/A



Fan: Ok



Frame cond.: Good



Motor Mount Position: Horizontal/Foot mount

Endbell type: Single piece

Missing parts?

☒ J-Box cover ☐ O-rings ☒ J-Box☐ HH cover ☐ Glands ☐ None

Other missing parts

Endbell Image:



Mechanical Inspection (Continued)

Air Gap Measurements (N/A on Single Piece Endbell)

Does Air Gap Meet Customer or EASA spec(<10% variation)?

N/A	DE @ 0	N/A	ODE @ 0	—
N/A	DE @ 90	N/A	ODE @ 90	
N/A	DE @ 180	N/A	ODE @ 180	
N/A	DE @ 270	N/A	ODE @ 270	

AC Electrical Inspection

Number of leads: 6

Terminal Markings: 1-6

Length of leads: 6"

REF: NEMA Stds. MG 1-2009, Rev. 1-2010, 2.41-Terminal Markings Identified By Color:

Size of leads: 2AWG

1-Blue
2-White
3-Orange
4-Yellow

5-Black
6-No color assigned
7-No color assigned
8-Red

P1-No color assigned
P2-Brown

Lead condition: Good

Lug type: Round

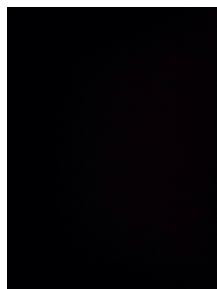
Connections As Received: All Black

Lug Condition: Good

Terminal

Lugs

Lug size: N/A



Lug Attachment: Acceptable

AC Electrical Inspection (Continued)

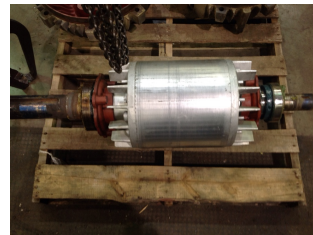
Rotor Type: Cast Aluminum

Rotor

Rotor Condition: Ok

Num rotor bars: 58

Num broken bars: 0



Rotor Test Results

Visual: Pass

Growler: Pass

Single phase: Pass

Stator type: Factory

If other, stator type: N/A

Stator condition: Ok

If other, stator condition: N/A

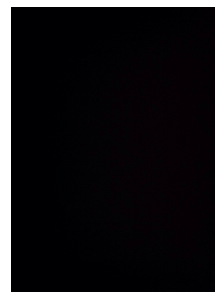
Failure location: Other

If other, stator failure: N/A

Stator Image:



Failure Image:



AC Electrical Inspection (Continued)

Winding color: Like new

Winding image

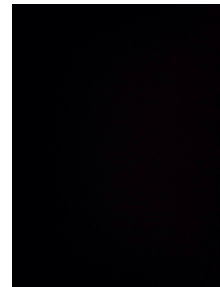
Winding Thermal Protection: No

Winding condition : Solid

Winding Thermal Protection DE: —

Winding Thermal Protection ODE: —

Stator test results: Rewind



Megs incoming: Good

Surge incoming: Good

Hi-pot incoming: Good

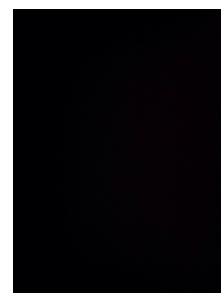
Winding Resistance Incoming

	Phases A to B	Phases B to C	Phases C to A	Resistive imbalance
Incoming	0.26	0.26	0.26	0

Leads/jumpers: Ok

Lead jumper Image. :

If other, leads/jumpers: N/A



Conclusion

Component Failure

Moisture in motor

Cause of Failure

Bad bearings

Comments

Needs washed, baked, and new bearings installed.

Service Tech name: Erich Sodam

Service Tech signature:

A handwritten signature in black ink, appearing to read 'E. Sodam', with a stylized, cursive script.**WEST TENNESSEE**

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