

Job Information

Job #: 139807

Date: May 23, 2019

Priority: —

Authorized OT: No

Authorized by:

Customer Information

Name: Xylem

Reason:

Contact: Kevin piper

Motor#: 139807

PO#:

Application: Direct Drive

Special notes:

Name Plate Information

Manufacturer: US

Enclosure : Weather Protected
I (WPI)

Enclosure Type image

Serial#:

Model#: H0350V2SLHX

Service Factor: 1.15

Frame: 447TPA

Horsepower/kW: 350

Rated RPM: 1785

Rated Amps: 389.0

Rated Voltage: 460

Phase: 3

Cycles: 60

Special design: No



Nameplate

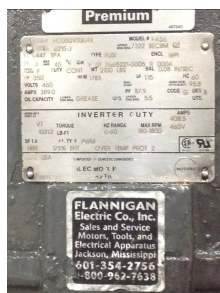
DE

ODE

F1

F2

Top



Mechanical Inspection

Inspect bolt holes and fasteners. Validate correct fasteners.

Does the shaft turn freely?: Yes

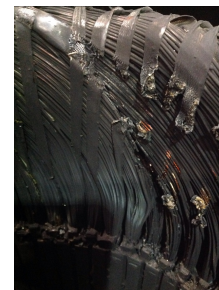
Contaminant(s): Other

Shaft rotation: —

Contaminant(s) Amt: Other

Shaft grounding device present?: Yes

Contaminant Image:



Type of grounding device: Agis ring

Shaft runout(TIR-Inbound): N/A

Bearings DE: Worn

Bearings DE make: Other

Insulated: No

Bearing DE Size: 7332

Bearings ODE: Worn

Bearings ODE make: FAG

Bearing Type: Ball

Bearing ODE Size: 6215

Bearings Retainer: Yes

Thermal Protection: Yes

Retainer condition: Good

Thermal Protection Type: Thermocouple

Bearing Type Image



Bearing Make Image



Bearing Retainer Image



Thermal Protection



Mechanical Inspection (Continued)

Lubrication Type: Oil

Thermal Protection device DE: Thermal Overloads

Lubrication brand inbound: Mobile Polyrex EM

Thermal Protection device ODE: N/A

Lubrication brand outbound: Mobile Polyrex EM

Grease Amt DE: Full

Grease Cond. DE: New

Grease Amt ODE: Full

Grease Cond. ODE: New

Seals DE type: Slinger

Seals Image:

Seals DE size: N/A

Seals DE (inbound) condition : N/A



Seals ODE type: N/A

Seals Image 2:

Seals ODE size: N/A

Seals ODE (inbound) condition : N/A



Shaft damage cause: None

Shaft Image:

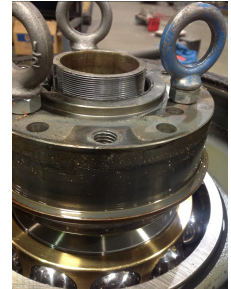


Mechanical Inspection (Continued)

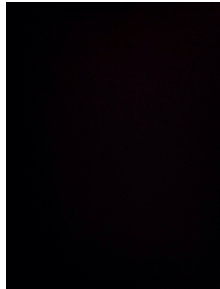
Brg. Image:



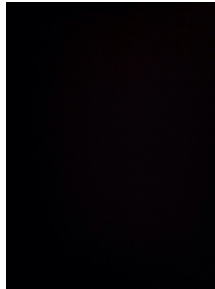
Bushings/sleeves image:



Water jacket: Ok



Fan: Ok



Frame cond.: Good



Motor Mount Position: Vertical Flange mount

Endbell type: Single piece

Missing parts?

- | | | |
|---|----------------------------------|---|
| <input checked="" type="checkbox"/> J-Box cover | <input type="checkbox"/> O-rings | <input checked="" type="checkbox"/> J-Box |
| <input type="checkbox"/> HH cover | <input type="checkbox"/> Glands | <input type="checkbox"/> None |

Other missing parts

Endbell Image:



Rain cap

Mechanical Inspection (Continued)

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

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

DE @ 0

ODE @ 0

—

DE @ 90

ODE @ 90

DE @ 180

ODE @ 180

DE @ 270

ODE @ 270

AC Electrical Inspection

Number of leads: 12

Terminal Markings: 1-1/7-7 2-2/8-8 3-3/9-9

Length of leads: 40"

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

Size of leads: 4

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

Connections As Received: 460

Lug type: N/A

Lug Condition: —

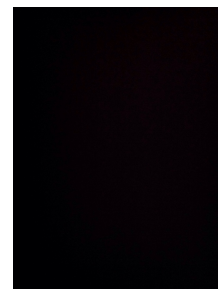
Lug size: N/A

Lug Attachment: —

Terminal



Lugs



AC Electrical Inspection (Continued)

Rotor Type: Cast Aluminum

Rotor Condition: Ok

Num rotor bars: 51

Num broken bars: 0

Rotor



Rotor Test Results

Visual: Pass

Growler: Pass

Single phase: Pass

Stator type: Factory

If other, stator type:

Stator condition: Phase-to-phase short

If other, stator condition:

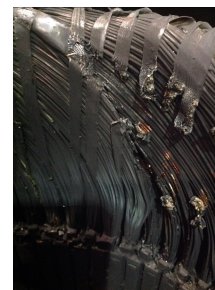
Failure location: Other

If other, stator failure: Phase to phase

Stator Image:



Failure Image:



WEST TENNESSEE

7030 Ryburn Drive
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AC Electrical Inspection (Continued)

Winding color: Dull black

Winding image

Winding Thermal Protection: Yes

Winding condition : Charred

Winding Thermal Protection DE: Bad

Winding Thermal Protection ODE: —

Stator test results: Rewind



Megs incoming: Bad

Surge incoming: Bad

Hi-pot incoming: Bad

Winding Resistance Incoming

Phases A to B

Phases B to C

Phases C to A

Resistive imbalance

Incoming

Leads/jumpers: Replace

Lead jumper Image. :

If other, leads/jumpers:





MILLINGTON, TN

LITTLE ROCK, AR

Conclusion

Component Failure

Winding

Cause of Failure

Phase to phase the paper was too short which allowed the two phases too touch each other

Comments

Rewind an bearings

Service Tech name: Michael Jordan

Service Tech signature:

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