

Job Information

Job #: 138758

Date: December 19, 2018

Priority: —

Authorized OT: No

Authorized by:

Customer Information

Name: USG

Reason:

Contact: Will Leadbetter

Motor#: 138758

PO#:

Application: Direct Drive

Special notes:

Name Plate Information

Manufacturer: Baldor

Enclosure : Totally Enclosed
Fan Cooled

Enclosure Type image

Serial#: 7536563-001 001 A1

Model#: P4465142k

Service Factor: 1.15

Frame: 0449T

Horsepower/kW: 200

Rated RPM: 1190

Rated Amps: 223

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): None

Shaft rotation: Bi-directional Contaminant(s) Amt: None

Shaft grounding device present?: No Contaminant Image:

Type of grounding device: N/A

Shaft runout(TIR-Inbound): .001



Bearings DE: Other Bearings DE make: SKF

Insulated: No Bearing DE Size: NU222

Bearings ODE: Other Bearings ODE make: SKF

Bearing Type: Roller Bearing ODE Size: 318zz

Bearings Retainer: Yes Thermal Protection: No

Retainer condition: Good Thermal Protection Type: —

Bearing Type Image



Bearing Make Image



Bearing Retainer Image



Thermal Protection



Mechanical Inspection (Continued)

Lubrication Type: Grease

Thermal Protection device DE: N/A

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: N/A

Seals Image:

Seals DE size:

Seals DE (inbound) condition :

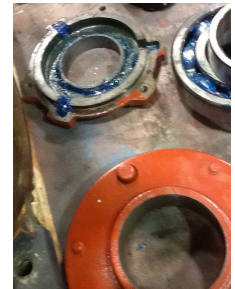


Seals ODE type: Slinger

Seals Image 2:

Seals ODE size:

Seals ODE (inbound) condition :



Shaft damage cause: None

Shaft Image:



WEST TENNESSEE

7030 Ryburn Drive
Millington, TN 38053
Phone 901-873-5300
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CENTRAL ARKANSAS

6812 Lindsey Rd.
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Phone 501-375-9178
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Mechanical Inspection (Continued)

Brg. Image:



Bushings/sleeves image:



Water jacket: Ok



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)?

DE @ 0

ODE @ 0

—

DE @ 90

ODE @ 90

DE @ 180

ODE @ 180

DE @ 270

ODE @ 270

AC Electrical Inspection

Number of leads: 6

Terminal Markings: 1-1/2-2/3-3

Length of leads: 18

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

Size of leads: 1/0

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: None

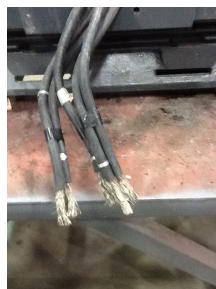
Connections As Received: 460

Lug Condition: —

Lug size: N/A

Lug Attachment: —

Terminal



Lugs



AC Electrical Inspection (Continued)

Rotor Type: Cast Aluminum

Rotor Condition: Ok

Num rotor bars: 68

Num broken bars: 0

Rotor



Rotor Test Results

Visual: Pass

Growler: Pass

Single phase: Pass

Stator type: HISI

If other, stator type: Mush

Stator condition: Ok

If other, stator condition: Good

Failure location: Other

If other, stator failure: 1 cut wire

Stator Image:



Failure Image:



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AC Electrical Inspection (Continued)

Winding color: Like new

Winding image

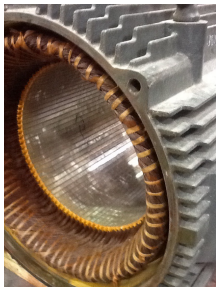
Winding Thermal Protection: No

Winding condition : Solid

Winding Thermal Protection DE: —

Winding Thermal Protection ODE: —

Stator test results: Salvageable



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

Leads/jumpers: Ok

Lead jumper Image. :

If other, leads/jumpers: Good





MILLINGTON, TN

LITTLE ROCK, AR

Conclusion

Component Failure

Clean up and bearings

Cause of Failure

Cut in one wire

Comments

Service Tech name: Michael Jordan

Service Tech signature:

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