

Job Information

Job #: 141278

Date: December 5, 2019

Priority: —

Authorized OT: No

Authorized by:

Customer Information

Name: Mainline

Reason:

Contact:

Motor#: 141278

PO#:

Application: Direct Drive

Special notes:

Name Plate Information

Manufacturer: Stahl

Enclosure : Totally Enclosed
Fan Cooled

Enclosure Type image

Serial#: 27201069138020

Model#: GmbH,D-74653

Service Factor:

Frame:

Horsepower/kW: 36KW

Rated RPM: 1745

Rated Amps: 69

Rated Voltage: 480

Phase: 3

Cycles: 60

Special design: No



Nameplate

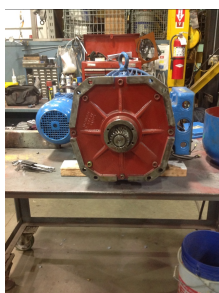
DE

ODE

F1

F2

Top



Mechanical Inspection

Inspect bolt holes and fasteners. Validate correct fasteners.

Does the shaft turn freely?: No Contaminant(s): Other

Shaft rotation: Bi-directional Contaminant(s) Amt: Other

Shaft grounding device present?: No Contaminant Image:



Type of grounding device:

Shaft runout(TIR-Inbound): N/A

Bearings DE: Worn Bearings DE make: FAG

Insulated: No Bearing DE Size: NU208

Bearings ODE: Worn Bearings ODE make: FAG

Bearing Type: Roller Bearing ODE Size: NU208

Bearings Retainer: No Thermal Protection: Yes

Retainer condition: — Thermal Protection Type: Thermocouple

Bearing Type Image



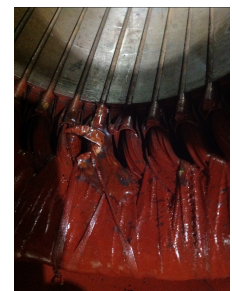
Bearing Make Image



Bearing Retainer Image



Thermal Protection



WEST TENNESSEE

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

CENTRAL ARKANSAS

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

Mechanical Inspection (Continued)

Lubrication Type: Oil

Thermal Protection device DE: Thermistors

Lubrication brand inbound: Mobile Polyrex EM

Thermal Protection device ODE: —

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: Isolators

Seals Image:



Seals DE size: 55 72 8 2

Seals DE (inbound) condition : H408

Seals ODE type: Isolators

Seals Image 2:



Seals ODE size: 50 72 8 2

Seals ODE (inbound) condition : 50 80 10 1

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?

☐ 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: 3

Terminal Markings: 1-2-3

Length of leads: 12"

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

Size of leads: #10

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: Reg

Connections As Received: On terminal block

Lug Condition: Good

Lug size: 3/8

Lug Attachment: Acceptable

Terminal



Lugs



AC Electrical Inspection (Continued)

Rotor Type: Cast Aluminum

Rotor Condition: Other

Num rotor bars: 28

Num broken bars: 0

Rotor



Rotor Test Results

Visual: Fail

Growler: Pass

Single phase: Pass

Stator type: Factory

If other, stator type:

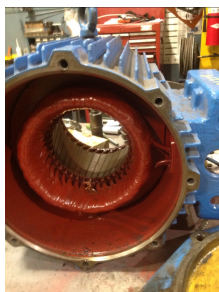
Stator condition: Ok

If other, stator condition:

Failure location: Other

If other, stator failure: Broken shaft

Stator Image:



Failure Image:



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AC Electrical Inspection (Continued)

Winding color: Like new

Winding image

Winding Thermal Protection: Yes

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	0.203500	0.203500	0.203000	0.2

Leads/jumpers: Ok

Lead jumper Image. :

If other, leads/jumpers:





MILLINGTON, TN

LITTLE ROCK, AR

Conclusion

Component Failure

Seals,bearing,spline in brake shoe ,spline on shaft,broken shaft,an thread on shaft are bad fan blades broken

Cause of Failure

Broken shaft

Comments

Order two NU208 bearings
One 51112C3 bearing
Four oil seals one 55 72 8 2
One 50 72 8 2
One 50 80 10 1

Service Tech name: Michael

Service Tech signature:

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