



MILLINGTON, TN

LITTLE ROCK, AR

Job Information

Job #: 140321

Date: August 2, 2019

Priority: 3

Authorized OT: No

Authorized by:

Customer Information

Name: Onsite Environmental

Reason: Motor not working

Contact:

Motor#: 181523966

PO#:

Application: Direct Drive

Special notes:

Name Plate Information

Manufacturer: Italvibras

Enclosure : Explosion-proof
enclosures (EXPL/

Enclosure Type image

Serial#: 181523966

Model#: VB 12-2510

Service Factor:

Frame: IP66

Horsepower/kW: 2.5

Rated RPM: 1200

Rated Amps: 5.72/3.28

Rated Voltage: 330/575

Phase: 3

Cycles: 60

Special design: Yes



Nameplate

DE

ODE

F1

F2

Top

**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

Inspect bolt holes and fasteners. Validate correct fasteners.

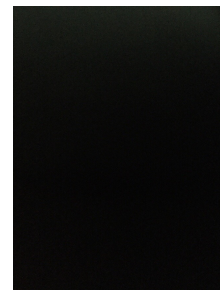
Does the shaft turn freely?: Yes Contaminant(s): None

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): N/A



Bearings DE: Worn Bearings DE make: SKF

Insulated: No Bearing DE Size: 312EC

Bearings ODE: Worn Bearings ODE make: SKF

Bearing Type: Roller Bearing ODE Size: 2314EC

Bearings Retainer: No Thermal Protection: No

Retainer condition: — Thermal Protection Type: —

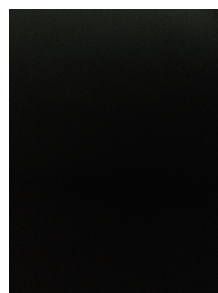
Bearing Type Image



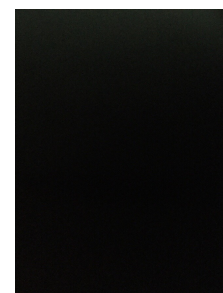
Bearing Make Image



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: New

Grease Amt ODE: Full

Grease Cond. ODE: New

Seals DE type: Slinger

Seals Image:

Seals DE size:

Seals DE (inbound) condition : Good



Seals ODE type: Slinger

Seals Image 2:

Seals ODE size:

Seals ODE (inbound) condition : Good



Shaft damage cause: None

Shaft Image:

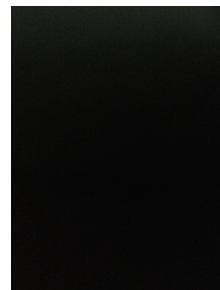


Mechanical Inspection (Continued)

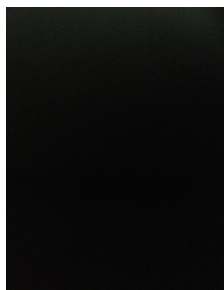
Brg. Image:



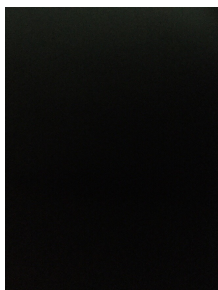
Bushings/sleeves image:



Water jacket: N/A



Fan: N/A



Frame cond.: Good



Motor Mount Position: Other

Endbell type: Single piece

Missing parts?

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

Other missing parts

Endbell Image:

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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: 1-6

Length of leads: 5"

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

Size of leads: 12AWG

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: But Connector

Connections As Received: Good

Lug Condition: Good

Terminal

Lugs

Lug size: Blue

Lug Attachment: Acceptable



AC Electrical Inspection (Continued)

Rotor Type: Cast Aluminum

Rotor

Rotor Condition: Ok

Num rotor bars: 44

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: Single phase

If other, stator condition: N/A

Failure location: In slot

If other, stator failure: N/A

Stator Image:



Failure Image:



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AC Electrical Inspection (Continued)

Winding color: Dull black

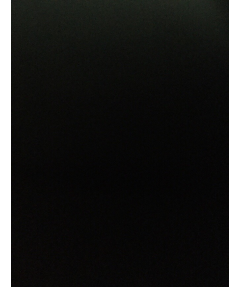
Winding image

Winding Thermal Protection: No

Winding condition : Charred

Winding Thermal
Protection DE: —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

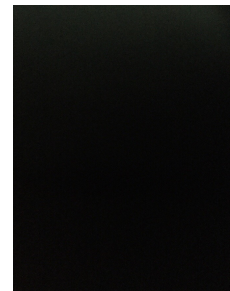
Resistive imbalance

Incoming

Leads/jumpers: Ok

Lead jumper Image. :

If other, leads/jumpers: N/A





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Conclusion

Component Failure

Windings burnt

Cause of Failure

Single Phase

Comments

Service Tech name: Erich Sodam

Service Tech signature:

A handwritten signature in black ink, appearing to be 'E. Sodam', written over a white background.

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