

Job Information

Job #: 142865 Date: July 15, 2020

Priority: 4 Authorized OT: No Authorized by:

Customer Information

Name: Process and power Reason:

Contact: Motor#: PO#:

Application: – Special notes:

Name Plate Information

Manufacturer: Baldor Enclosure: Open Drop Proof Enclosure Type image

(ODP)

Serial#: A1310142017 Model#:

Service Factor: 1.15 Frame: 449tdz

Horsepower/kW: 300 Rated RPM: 1785

Rated Amps: 334 Rated Voltage: 460

Phase: 3 Cycles:

Special design: No

Nameplate DE ODE F1 F2 Top















Mechanical Inspection

Type of grounding device:

Shaft runout(TIR-Inbound):

Bearings DE:

Inspect bolt holes and fasteners. Validate correct fasteners.

Does the shaft turn freely?: Yes Contaminant(s): Grease

Shaft rotation: CCW Contaminant(s) Amt: Cup

Shaft grounding device No Contaminant Image:

Worn

present?:

Insulated: No Bearing DE Size: Nu222

Bearings ODE: Worn Bearings ODE make: SKF

Bearing Type: Ball Bearing ODE Size: 6318

Bearings Retainer: Yes Thermal Protection: Yes

Retainer condition: Good Thermal Protection Type: —

Bearing Type Image



Bearing Make Image



Bearing Retainer Image

Bearings DE make:

FAG



Thermal Protection





Mechanical Inspection (Continued)

Lubrication Type: Oil 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 Image 2:

Seals ODE size:

Seals ODE type:

Seals ODE (inbound) condition

Seals DE (inbound) condition:

Shaft damage cause: None Shaft Image:

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Slinger



Mechanical Inspection (Continued)

Brg. Image:



Bushings/sleeves image:



Water jacket: Ok



Fan: Ok



Frame cond.:

Good



Motor Mount Position:

Horizontal/Foot mount

Endbell type:

Endbell Image:

Single piece

Missing parts?

☐ J-Box cover

O-rings

✓ J-Box

☐ HH cover

Glands

☐ None

Other missing parts



Mechanical Inspection (Continued)

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

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

N/A N/A DE @ 0 ODE @ 0

N/A DE @ 90 N/A **ODE @ 90**

N/A N/A DE @ 180 ODE @ 180

N/A N/A DE @ 270 **ODE @ 270**

AC Electrical Inspection

Number of leads: 12 Terminal Markings:

REF: NEMA Stds. MG 1-2009, Rev. 1-2010, 2.41-Terminal Length of leads:

Markings Identified By Color:

P1-No color assigned 1-Blue 5-Black Size of leads: P2-Brown

2-White 6-No color assigned

7-No color assigned 3-Orange

4-Yellow 8-Red Lead condition: Good

Connections As Received: Lug type:

Lug Condition: Terminal Lugs

Lug size:

Lug Attachment: Replace





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AC Electrical Inspection (Continued)

Rotor Type: Cast Aluminum

Rotor Condition: Ok

Num rotor bars:

Num broken bars:

Rotor



Rotor Test Results

Visual: Pass Growler: Pass Single phase: Pass

Stator type: Factory If other, stator type:

Stator condition: Ok If other, stator condition:

Failure location: In slot If other, stator failure: Oil all over the winding

Stator Image: Failure Ima



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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: 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:

If other, leads/jumpers:

Ok

Lead jumper Image.:



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Conclusion

Component Failure

Bearings and oil in the stator

Cause of Failure

Failure caused from using two different types of grease on the bearings also oil was all over the stator windings

Comments

Service Tech name: Scott

Service Tech signature:

SM (