

Job Information

94810 Job #: Date: October 19,

2018

Priority: Authorized OT: No Authorized by:

Customer Information

Name: Flakeboard Reason:

Contact: Motor#: PO#:

Application: Special notes:

Name Plate Information

Manufacturer: Reliance Enclosure: Open Drop Proof **Enclosure Type image**

(ODP)

2MAF5174 Serial#: Model#:

Service Factor: 405TC 1.15 Frame:

Horsepower/kW: 125 Rated RPM: 1775

Rated Amps: 144 Rated Voltage: 460

Phase: 3 Cycles: 60

Special design: No

Nameplate DE ODE F1 F2 Top













CENTRAL ARKANSAS



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?: Contaminant(s): Other Yes

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

Shaft grounding device No

Worn

Contaminant Image: present?:

Insulated: Bearing DE Size: 6316 ZZ No

Bearings ODE: Worn Bearings ODE make: **NACHI**

Bearing Type: Bearing ODE Size: Ball 6316 ZZ

Bearings Retainer: Yes Thermal Protection: No

Retainer condition: Good Thermal Protection Type:

Bearing Type Image



Bearing Make Image



Bearing Retainer Image

Bearings DE make:

NACHI



Thermal Protection



Lubrication Type: Grease Thermal Protection device DE: —

Lubrication brand inbound: Unknown Thermal Protection device ODE: —

Lubrication brand outbound: Unknown

Grease Amt DE: 1/2 Grease Cond. DE: New

Grease Amt ODE: 1/2 Grease Cond. ODE: New

Seals DE type: N/A

Seals DE size:

Seals DE (inbound) condition:

Seals ODE type: N/A

Seals ODE size:

Seals ODE (inbound) condition

:

Shaft damage cause: None Shaft Image:





Brg. Image:



Bushings/sleeves image:



Water jacket: N/A Fan: N/A Frame cond.: Good



Motor Mount Position: Horizontal/Foot mount Endbell type: Single piece

Missing parts? Endbell Image:

☑ J-Box cover ☐ O-rings ☑ J-Box

☐ HH cover ☐ Glands ☐ None

_ _ _



Other missing parts



Air Gap Meaurements (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:

Length of leads: 39" REF: NEMA Stds. MG 1-2009, Rev. 1-2010, 2.41-Terminal

Markings Identified By Color:

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

2-White 6-No color assigned P2-Brown

3-Orange 7-No color assigned

Lead condition: Good 4-Yellow 8-Red

Connections As Received: Lug type:

Lug Condition: Good Terminal Lugs

Lug size:

Lug Attachment: Acceptable





AC Electrical Inspection (Continued)

Rotor Type: Cast Aluminum

Ok

Num rotor bars: 58

Num broken bars: 0

Rotor



Rotor Test Results

Rotor Condition:

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:

Stator Image:





AC Electrical Inspection (Continued)

Winding color: Painted 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 54.003 53.896 53.931 0.1

Leads/jumpers: Ok

If other, leads/jumpers:

Mechanical Inspection

Inspect bolt holes and fasteners. Validate correct fasteners.

Shaft Condition: Good Bearings Retainer: Yes

Type of grounding device: Bearing DE Size: 6316 ZZ

Shaft runout(TIR-Inbound): Bearing ODE Size: 6316 ZZ

Retainer condition: Good

Fax 901-873-5301



Seals DE condition: None Brg. Seats DE: Good

Seals DE type: N/A If DE undersized, amt.:

Seals DE size: Brg. Seats ODE: Good

Seals DE (inbound) condition: If ODE undersized, amt.:

Seals ODE condition: None Shaft damage: OK

Seals ODE type: N/A

Seals ODE size:

Bushings/sleeves DE: Ok

Seals ODE (inbound) condition : Bushings/sleeves ODE: Ok

Endbell fits/damage: Good Foot/Flange condition: Ok

Endbell DE size: 6.6936 Foot flatness: Pass

Endbell DE insulated?: No

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

variation)?

Endbell ODE insulated?: No

Endbell ODE size:

6.6932



Conclusion

Component Failure

Motor checks good mechanically and electrically, windings have buildup of sawdust on them.

Lynn McDonald

Cause of Failure

Comments

Cleanup and recondition

Service Tech name: Lynn McDonald

Service Tech signature:

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