

Job Information

Job #: 96154 Date: November 1,

2019

Priority: Authorized OT: No Authorized by:

Customer Information

Name: Central AR Water Reason:

Contact: Motor#: PO#:

Application: Special notes:

Name Plate Information

Manufacturer: General Motors Enclosure: Weather Protected **Enclosure Type image**

I (WPI)

Serial#: Model#: 5K6268XH1A

Service Factor: B405TP16 1.15 Frame:

Horsepower/kW: 125 Rated RPM: 1770

Rated Amps: 144 Rated Voltage: 460

Cycles: Phase: 3 60

Special design:

Yes

Nameplate DE ODE F1 F2 Top









Mechanical Inspection

Inspect bolt holes and fasteners. Validate correct fasteners.

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

> Shaft rotation: **CCW** Contaminant(s) Amt: Other

Shaft grounding device No

Contaminant Image: present?:

Shaft runout(TIR-Inbound):

Type of grounding device:

Bearings DE: Worn Bearings DE make: **FAG**

Insulated: Bearing DE Size: 7222 No

Bearings ODE: Worn Bearings ODE make: **FAG**

Bearing Type: Bearing ODE Size: Ball 6215

Bearings Retainer: Yes Thermal Protection: No

Retainer condition: Good Thermal Protection Type:

Bearing Type Image



Bearing Make Image



Bearing Retainer Image



Thermal Protection



Lubrication Type: Oil Thermal Protection device DE: —

Lubrication brand inbound: Unknown Thermal Protection device ODE: —

Lubrication brand outbound: Mobile Polyrex EM

Grease Amt DE: Full Grease Cond. DE: Other

Grease Amt ODE: 1/4 Grease Cond. ODE: Gritty

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:



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: 6 Terminal Markings:

Length of leads: 12 in 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: NA

Lug Condition: — Terminal Lugs

Lug size:

Lug Attachment: —

Fax 901-873-5301



AC Electrical Inspection (Continued)

Rotor Type: Cast Aluminum

Ok

Num rotor bars: 76

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: Other If other, stator failure:

Stator Image: Failure Image:







AC Electrical Inspection (Continued)

Winding color: Still has color Winding image Winding Thermal Protection: No

Winding condition: Solid

Winding Thermal Protection DE:

Winding Thermal Protection ODE:

Stator test results: Salvageable

Megs incoming: Surge incoming: Hi-pot incoming: Good Good Good

Winding Resistance Incoming

Phases A to B Phases B to C Phases C to A Resistive imbalance

Incoming 0.00 0.00 0.00

> Lead jumper Image. : Leads/jumpers: Ok

If other, leads/jumpers:

Mechanical Inspection

Inspect bolt holes and fasteners. Validate correct fasteners.

Shaft Condition: Good Bearings Retainer:

Type of grounding device: Bearing DE Size: 7222

Shaft runout(TIR-Inbound): Bearing ODE Size: 6215

Retainer condition:



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: Shaft damage: OK None Seals ODE type: N/A Bushings/sleeves DE: Ok Seals ODE size: Bushings/sleeves ODE: Ok Seals ODE (inbound) condition: Endbell fits/damage: Foot/Flange condition: Good Ok Endbell DE size: Foot flatness: **Pass** Endbell DE insulated?: Does Air Gap Meet Customer or EASA spec(<10% variation)? Endbell ODE size: 5.1181

Endbell ODE insulated?:



Conclusion

Component Failure

Cause of Failure

Comments

ODE and DE bearing fits on the shaft are undersized, the ODE bearing shows signs of contamination, and the DE bearing shows signs of wear. Recommend reconditioning, new bearings, and machine work for the bearing fits on the shaft.

Mas Willey

Service Tech name: Chris Wiley

Service Tech signature: