

Job Information

Job #: 139645 Date: May 8, 2019

Priority: — Authorized OT: No Authorized by:

Customer Information

Name: Barnhart Reason: Recondition motor

Contact: Lori Kelly Motor#: PO#:

Application: – Special notes:

Name Plate Information

Manufacturer: P&H Enclosure: Open Drop Proof Enclosure Type image

(ODP)

Serial#: 270478 Model#: HEW505X

Service Factor: Frame:

Horsepower/kW: 125 Rated RPM: 1180

Rated Amps: Sta-279/139. Rated Voltage: Sta-230/460. Rot

Rot-155

Phase: 3 Cycles:

Yes

Nameplate DE ODE F1 F2 Top

373



Special design:











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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:

Shaft runout(TIR-Inbound):

Type of grounding device:

Bearings DE: Worn Bearings DE make: SKF

Insulated: No Bearing DE Size: 6218zz

Bearings ODE: Worn Bearings ODE make: Koyo

Bearing Type: Ball Bearing ODE Size: 6216zz

Bearings Retainer: Yes Thermal Protection: No

Retainer condition: Good Thermal Protection Type: —

Bearing Type Image



Bearing Make Image



Bearing Retainer Image



Thermal Protection



Seals Image 2:



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: 1/4 Grease Cond. DE: Hard

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

Seals DE type: N/A Seals Image:

Seals DE size:

Seals DE (inbound) condition:

Seals ODE (inbound) condition

Seals ODE type: N/A

Seals ODE size:

:

Shaft damage cause: Taper bad Shaft Image:

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Mechanical Inspection (Continued)





Bushings/sleeves image:



Water jacket:

N/A

Fan: N

N/A

Frame cond.:

Good



Motor Mount Position:

Horizontal/Foot mount

Endbell type:

Single piece

Missing parts?

☐ J-Box cover

O-rings

☐ J-Box

☐ HH cover

Glands

✓ None

Endbell Image:



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)?

DE @ 0 ODE @ 0

DE @ 90 **ODE @ 90**

DE @ 180 **ODE @ 180**

DE @ 270 **ODE @ 270**

AC Electrical Inspection

Number of leads: 9 Terminal Markings:

REF: NEMA Stds. MG 1-2009, Rev. 1-2010, 2.41-Terminal Length of leads: 18 inches

Markings Identified By Color:

P1-No color assigned 5-Black 1-Blue Size of leads: 2awg

P2-Brown 2-White 6-No color assigned

7-No color assigned 3-Orange

4-Yellow 8-Red Lead condition: Bad

Connections As Received: Standard Lug type:

Lug Condition: Terminal Lugs

Lug size:

Lug Attachment:



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Failure Image:



AC Electrical Inspection (Continued)

Rotor Type: Cast Aluminum

Rotor Condition: Ok

Num rotor bars:

Num broken bars:

Rotor



Rotor Test Results

Stator Image:

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:







AC Electrical Inspection (Continued)

Winding color: Still has color Winding image Winding Thermal Protection:

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 0.0643 0.0643 0.0643

Leads/jumpers: Ok Lead jumper Image. :

If other, leads/jumpers:





Conclusion

Component Failure

Cause of Failure

Comments

Relead motor, hi temp protection on leads is bad. New ring leads, Bad tapper end on shaft,

Service Tech name: Dan Mahan

Service Tech signature:

