

Job Information

Job #: 96416 Date: January 7, 2020

Priority: — Authorized OT: No Authorized by:

Customer Information

Name: Delta Plastics Reason:

Contact: Motor#: PO#:

Application: – Special notes:

Name Plate Information

Manufacturer: OEMER Enclosure: Open Drop Proof Enclosure Type image

Frame:

Rated RPM:

180M

1800

(ODP)

Serial#: Model#:

Rated Amps: 127.2/73.6 Rated Voltage: 266/460

Phase: 3 Cycles: 60.6

Special design: No

115(kw)

Nameplate DE ODE F1 F2 Top



Service Factor:

Horsepower/kW:







Fax 901-873-5301



Mechanical Inspection

Type of grounding device:

Shaft runout(TIR-Inbound):

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:

None

.001

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Bearings DE: Worn Bearings DE make: FAG

Insulated: No Bearing DE Size: 6314 2Z

Bearings ODE: Worn Bearings ODE make: FAG

Bearing Type: Ball Bearing ODE Size: 6214 2Z

Bearings Retainer: Yes Thermal Protection: Yes

Retainer condition: Good Thermal Protection Type: —

Bearing Type Image



Bearing Make Image



Bearing Retainer Image

Thermal Protection



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: 0 Grease Cond. DE: Other

Grease Amt ODE: Grease Cond. ODE: Other

Seals DE type: Seals Image: Slinger

Seals DE size: 70*85*8

Seals DE (inbound) condition: Worn

Seals Image 2:

Seals ODE size: 70*85*8

Seals ODE (inbound) condition Worn

Seals ODE type:

Slinger

Shaft damage cause: Shaft Image: None



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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: 18/11 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

Lug size:

Lug Attachment: Acceptable





Lugs





AC Electrical Inspection (Continued)

Rotor Type: Cast Aluminum

Ok

Num rotor bars: 48

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: 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: Ok Lead jumper Image. :

If other, leads/jumpers:

Mechanical Inspection

Inspect bolt holes and fasteners. Validate correct fasteners.

Shaft Condition: Good Bearings Retainer: Yes

Type of grounding device: None Bearing DE Size: 6314 2Z

Shaft runout(TIR-Inbound): .001 Bearing ODE Size: 6214 2Z

Retainer condition: Good

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Seals DE condition: Worn Brg. Seats DE: Good

Seals DE type: Isolators If DE undersized, amt.:

Seals DE size: 70*85*8 Brg. Seats ODE: Good

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

Seals ODE condition: Worn Shaft damage: OK

Seals ODE type: Isolators

Seals ODE size: 70*85*8

Bushings/sleeves DE: Ok

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

4.9225 (bad)

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

Endbell DE size: Bad (lip worn) Foot flatness: Pass

Endbell DE insulated?: No

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

variation)?

Endbell ODE insulated?: No

Endbell ODE size:



Conclusion

Component Failure

Drive end bearing and housing fit.

Cause of Failure

Lack of lubrication caused premature bearing failure.

Comments

D.E. Bearing suffered catastrophic failure due to lack of lubrication. This is the most probable cause of the drive end housing fit being out of tolerance. Also the opposite drive end bearing housing fit measures too large and needs to be repaired.

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Service Tech name: Terrence Holland

Service Tech signature:

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