

Job Information

95245 Job #: Date: March 4, 2019

Priority: Authorized OT: No Authorized by:

Customer Information

Name: Richland Foods Reason:

Contact: Motor#: PO#:

Application: Special notes:

Name Plate Information

Serial#:

Manufacturer: Baldor Enclosure: Totally Enclosed **Enclosure Type image**

Fan Cooled

Cat: M74154T-4 Model#: Spec:

18J066X176H1

Service Factor: 447 1.0 Frame:

Horsepower/kW: 150 Rated RPM: 1780

Rated Amps: 167 Rated Voltage: 460

Phase: 3 Cycles: 60

Special design:

No

Nameplate DE ODE F1 F2 Top









Fax 901-873-5301



Mechanical Inspection

Inspect bolt holes and fasteners. Validate correct fasteners.

Aegis

Does the shaft turn freely?: No Contaminant(s): None

Shaft rotation: — Contaminant(s) Amt: None

Shaft grounding device Yes Contaminant Image:

present?:

Shaft runout(TIR-Inbound):

Type of grounding device:

Bearings DE: Worn Bearings DE make: Koyo

Insulated: No Bearing DE Size: 6319 2Z

Bearings ODE: Worn Bearings ODE make: Koyo

Bearing Type: Ball Bearing ODE Size: 6314 2Z

Bearings Retainer: Yes Thermal Protection: No

Retainer condition: Bad Thermal Protection Type: —

Bearing Type Image



Bearing Make Image



Bearing Retainer Image



Thermal Protection



Lubrication Type: Grease Thermal Protection device DE: -

Lubrication brand inbound: Unknown Thermal Protection device ODE: —

Lubrication brand outbound: Unknown

Grease Amt DE: 0 Grease Cond. DE: Charred

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

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: Keyway bad Shaft Image:





Brg. Image:



Bushings/sleeves image:



Water jacket:

N/A

Fan:

Ok

Frame cond.:

Good



Motor Mount Position:

Horizontal/Foot mount

Endbell type:

Single piece

Missing parts?

O-rings

Endbell Image:

☐ J-Box cover

☐ 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: 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: — Terminal Lugs

Lug size:

Lug Attachment: —

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AC Electrical Inspection (Continued)

Rotor Type: Cast Aluminum

Ok

Num rotor bars: 47

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: Core edge If other, stator failure:

Stator Image: Failure Image:







AC Electrical Inspection (Continued)

Winding color: Dull black Winding image Winding Thermal Protection: No

Winding condition: Solid

Winding Thermal Protection DE:

Winding Thermal
Protection ODE:

Stator test results: Rewind

Megs incoming: Bad Surge incoming: Bad Hi-pot incoming: Bad

Winding Resistance Incoming

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

Incoming

Leads/jumpers: Ok

If other, leads/jumpers:

Mechanical Inspection

Inspect bolt holes and fasteners. Validate correct fasteners.

Shaft Condition: Worn Bearings Retainer: Yes

Type of grounding device: Aegis Bearing DE Size: 6319 2Z

Shaft runout(TIR-Inbound): Bearing ODE Size: 6314 2Z

Retainer condition: Bad

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Seals DE condition: Worn Brg. Seats DE: Good

Seals DE type: N/A If DE undersized, amt.: .0001

Seals DE size: Brg. Seats ODE: Good

Seals DE (inbound) condition: If ODE undersized, amt.: .0002

Seals ODE condition: Worn Shaft damage: OK

Seals ODE type: N/A

Seals ODE size:

Bushings/sleeves DE: Ok

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

5.9069 (lip worn)

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

Endbell DE size: 7.8452 (good) 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

Multiple: Drive end bearing cage. Drive end bearing cap requires sleeving. D.E. shaft bearing shoulder worn. D.E. Bent .0016.

Cause of Failure

Drive end bearing bearing cage failed.

Comments

Drive end bearing cage is the primary cause of failure. Drive end bearing cap requires sleeving. D.E. shaft bearing shoulder worn. D.E. shaft Bent .0016. Aegis ring destroyed and needs replacing. O.D.E. End bell bearing housing out of tolerance and has lip worn in fit. Windings require rewind. Key way wallowed.

Service Tech name: Terrence Holland

Service Tech signature:

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