

Job Information

Job #: 96602 Date: March 2, 2020

Priority: — Authorized OT: No Authorized by:

Customer Information

Name: NLR Wastewater Reason:

Contact: Motor#: PO#:

Application: – Special notes:

Name Plate Information

Manufacturer: US Enclosure: Totally Enclosed Enclosure Type image

Fan Cooled

Serial#: Y0717700602-0001 Model#: 17700602-100

Service Factor: 1.15 Frame: 324LPHZ

Horsepower/kW: 25 Rated RPM: 1190

Rated Amps: 62/31 Rated Voltage: 230/460

Phase: 3 Cycles: 60

Special design: Yes

Nameplate DE ODE F1 F2 Top









WEST TENNESSEE



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

Type of grounding device:

Shaft runout(TIR-Inbound):

Bearings DE: Worn Bearings DE make: Other

Insulated: No Bearing DE Size: 5216

Bearings ODE: Worn Bearings ODE make: Other

Bearing Type: Ball Bearing ODE Size: 6211

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: Grease Thermal Protection device DE: —

Lubrication brand inbound: Unknown Thermal Protection device ODE: —

Lubrication brand outbound: Unknown

Grease Amt DE: Full Grease Cond. DE: Hard

Grease Amt ODE: Full Grease Cond. ODE: Charred

Seals DE type: Labyrinth

Seals DE size:

Seals DE (inbound) condition: Good

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: Broken 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: 9 Terminal Markings:

Length of leads: 7in 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: —

Fax 901-873-5301



AC Electrical Inspection (Continued)

Rotor Type: Cast Aluminum

Rotor Condition: Ok _____

Num rotor bars:

Num broken bars:

Rotor



Rotor Test Results

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: 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 0.00 0.00 0.00

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: Bearing DE Size: 5216

Shaft runout(TIR-Inbound): Bearing ODE Size: 6211

Retainer condition: Good

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Seals DE condition: Other Brg. Seats DE: Good

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

Seals DE size: Brg. Seats ODE: Good

Seals DE (inbound) condition: Good 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: 5.5129 Foot flatness: Pass

Endbell DE insulated?: —

3.9382

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

variation)?

Endbell ODE insulated?: -

Endbell ODE size:



Conclusion

Component Failure

Cause of Failure

Comments

Fan is broken, DE bearing shows signs of contamination and metal fatigue, ODE bearing shows signs of contamination and frosting. Recommend new bearings, aegis ring, new fan, and reconditioning

Atra Eldus

Service Tech name: Chris Wiley

Service Tech signature: