

Job Information

Job #: 94957 Date: December 11,

2018

Priority: — Authorized OT: No Authorized by:

Customer Information

Name: Cintas Reason:

Contact: Motor#: PO#:

Application: – Special notes:

Name Plate Information

Manufacturer: BROOK Enclosure: Open Drop Proof Enclosure Type image

CROMPTON (ODP)

Serial#: A661416 Model#:

Service Factor: Frame: WV-DA160MB

Horsepower/kW: 15 Rated RPM: 3530

Rated Amps: 20.6/19.6 Rated Voltage: 440/480

Phase: 3 Cycles: 60

No

Nameplate DE ODE F1 F2 Top



Special design:











Fax 901-873-5301



Mechanical Inspection

Inspect bolt holes and fasteners. Validate correct fasteners.

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

Shaft rotation: Bi-directional Contaminant(s) Amt: None

Shaft grounding device

present?:

Type of grounding device:

Shaft runout(TIR-Inbound):

Bearings DE: Worn Bearings DE make: NSK

Insulated: No Bearing DE Size: 6309ZZ

Bearings ODE: Worn Bearings ODE make: SKF

Bearing Type: Ball Bearing ODE Size: 6307ZZ

Bearings Retainer: Yes Thermal Protection: Yes

Retainer condition: — 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: N/A Grease Cond. DE: Other

Grease Amt ODE: N/A Grease Cond. ODE: Other

Seals DE type: Slinger

Seals DE size:

Seals DE (inbound) condition:

Seals ODE type: Slinger

Seals ODE size:

Seals ODE (inbound) condition

:

Shaft damage cause: Other Shaft Image:





Brg. Image:



Water jacket: N/A Fan: Ok 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

J-Box 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: 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

Lead condition: Good 3-Orange 7-No color assigned 4-Yellow 8-Red

Connections As Received: High voltage

Lug Condition: — Terminal Lugs

Lug size:

Lug Attachment: —

Lug type:

1115







AC Electrical Inspection (Continued)

Rotor Type: Cast Aluminum

Ok

Num rotor bars:

Num broken bars:

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: In slot If other, stator failure:

Stator Image: Failure Image:







AC Electrical Inspection (Continued)

Winding color: Like new 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 0.570 0.569 0.569 0.1

Leads/jumpers: Ok

If other, leads/jumpers:

Mechanical Inspection

Inspect bolt holes and fasteners. Validate correct fasteners.

Shaft Condition: Other Bearings Retainer: Yes

Type of grounding device: Bearing DE Size: 6309

Shaft runout(TIR-Inbound): Bearing ODE Size: 6307

Retainer condition: —

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Seals DE condition: Worn Brg. Seats DE: Good

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

Seals DE size: Brg. Seats ODE: Good

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

Seals ODE condition: Worn Shaft damage: OK

Seals ODE type: Slinger

Seals ODE size:

Bushings/sleeves DE: Ok

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

3.1520 Bad

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

Endbell DE size: 3.9490 Bad Foot flatness: Pass

Endbell DE insulated?: No

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

variation)?

Endbell ODE insulated?: -

Endbell ODE size:



Conclusion

Component Failur

Drive End bearing failure

Cause of Failure

Comments

DE And ODE END BELL HOUSING FITS BAD. DE SHAFT SEAL SURFACE IS BAD. Fan Cover bolts broke off in stator

Bers Wiles

Service Tech name: Robert Wiley

Service Tech signature: