

Job Information

Job #: 140512

Date: August 29, 2019

Priority: —

Authorized OT: No

Authorized by:

Customer Information

Name: Dell

Reason:

Contact:

Motor#: 140512

PO#:

Application: —

Special notes:

Name Plate Information

Manufacturer: Reliance

Enclosure : Open Drop Proof (ODP)

Enclosure Type image

Serial#: 489853-001-1K

Model#:

Service Factor: 1.0

Frame:

Horsepower/kW: 10

Rated RPM: 1750



Armature

Volts 125

Amps 71

Fields

Volts 125

Amps 1.53

Nameplate

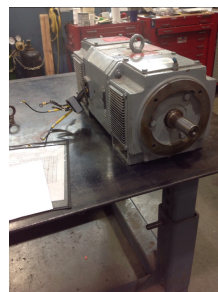
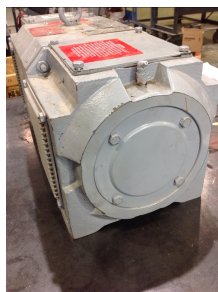
DE

ODE

F1

F2

Top



Mechanical Inspection

Inspect bolt holes and fasteners. Validate correct fasteners.

Does the shaft turn freely?: Yes

Contaminant(s): None

Shaft rotation: —

Contaminant(s) Amt: None

Shaft Condition: Good

Contaminant Image:

Shaft grounding device
present?: No



Type of grounding device:

Shaft runout(TIR-Inbound): 0.00

Bearing Type Image



Bearing Make Image



Bearing Retainer Image



Thermal Protection



Lubrication Type: Grease

Thermal Protection device DE:

Thermal Overloads

Lubrication brand inbound: Unknown

Thermal Protection device ODE:

N/A

Lubrication brand outbound: Unknown

Grease Amt DE: Full

Grease Cond. DE: New

Grease Amt ODE: Full

Grease Cond. ODE: New

WEST TENNESSEE

7030 Ryburn Drive
Millington, TN 38053
Phone 901-873-5300
Fax 901-873-5301

CENTRAL ARKANSAS

6812 Lindsey Rd.
Little Rock, AR 72206
Phone 501-375-9178
Fax 501-375-4254

Mechanical Inspection (Continued)

Brushholders	Number	4
	Condition	Good
	Size	1.25x. 375x1.0
	Spring type	Spiral spring

Brushes	Number	4
	Size	1.25x. 375x1.0
	Shunt Len.	3"
	Insulated	Yes
	TermType	Open spade

Brg Image



Shaft Image



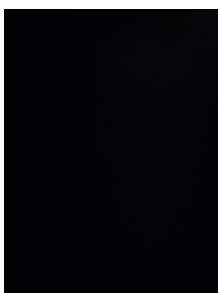
Brushing/sleeves



End bell



Water jacket: N/A



Fan: Ok



Frame cond.: Good



Motor Mount Position: Horizontal/Foot mount

Foot/Flange condition: Ok

Foot flatness: Pass

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MILLINGTON, TN

LITTLE ROCK, AR

Mechanical Inspection (Continued)

Missing parts?

☐ J-Box cover☐ O-rings☐ J-Box☐ HH cover☐ Glands☐ None

Other missing parts

Air Gap Measurements (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

Electrical Inspection

☐ Move armature imbalance to Assemble

Commutator: —

Winding Inspection

Meg Test IP to Flds: Good

Polarity Check IP to Flds: Yes

Meg Series to Shunt: Good

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DC Electrical Inspection

Brushes: Normal wear

Brush Image:



Brush holders: Salvageable Qty. 4

Insulators: Salvageable Qty. 4

Lead support stud: Salvageable Qty. 4

Alternate brush image:

Rocker ring: Salvageable Qty. 1



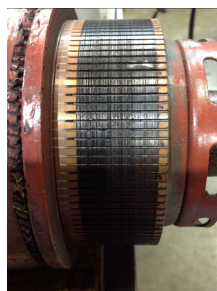
Commutator Type: Soldered

Commutator images

Commutator Hardness: Good

Commutator Condition : Salvageable

Commutator Film: Black



Armature type: Factory If other

Failure mode: Ok If other

Failure location: Other If other

Armature condition: Solid If other

Winding color: Like new

Armature images



DC Electrical Inspection (Continued)

Armature Test Results

Armature image



Megs: Good Hi-pot: Good Core loss: Good

Fields condition

Series/Stab condition: Ok

Fields condition image:



Shunts condition: Ok

InterCoils condition: Ok

Fields test results

Series/Stab Meg: Ok Hi Pot: Ok Resistance: Ok

Shunts Meg: Ok Hi Pot: Ok Resistance: Ok

InterCoils Meg: Ok Hi Pot: Ok Resistance: Ok

Thermistors: None

Field Test image

RTD: None At



Thermostat: Taped off

Leads/jumpers: Ok

Lead jumper Image:



Conclusion

Component Failure

Worn bearings

Cause of Failure

Comments

Service Tech name: Shawn

Service Tech
signature:

A handwritten signature in black ink, appearing to read 'Shawn', written over a white background.