

Job Information

Job #: 140159

Date: July 11, 2019

Priority: —

Authorized OT: No

Authorized by:

Customer Information

Name: Delta metals

Reason:

Contact: Craig

Motor#:

PO#:

Application: —

Special notes:

Name Plate Information

Manufacturer: Reliance

Enclosure : Open Drop Proof (ODP)

Enclosure Type image

Serial#:

Model#:

Service Factor:

Frame:

Horsepower/kW:

Rated RPM:



Armature

Volts 500

Amps 345

Fields

Volts 300

Amps 5.7

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: Bi-directional

Contaminant(s) Amt: None

Shaft Condition: Good

Contaminant Image:

Shaft grounding device present?: No



Type of grounding device:

Shaft runout(TIR-Inbound): .001

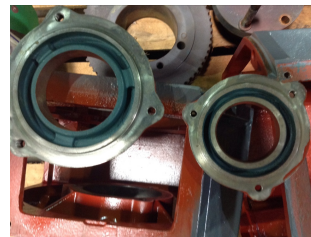
Bearing Type Image



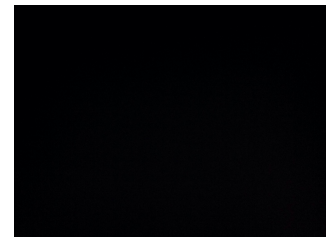
Bearing Make Image



Bearing Retainer Image



Thermal Protection



Lubrication Type: Grease

Thermal Protection device DE: N/A

Lubrication brand inbound: Mobile Polyrex EM

Thermal Protection device ODE: N/A

Lubrication brand outbound: Mobile Polyrex EM

Grease Amt DE: Full

Grease Cond. DE: Other

Grease Amt ODE: Full

Grease Cond. ODE: Other

WEST TENNESSEE

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

CENTRAL ARKANSAS

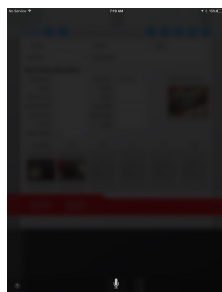
6812 Lindsey Rd.
Little Rock, AR 72206
Phone 501-375-9178
Fax 501-375-4254

Mechanical Inspection (Continued)

Brushholders	Number	8
	Condition	Good
	Size	1.5x.5
	Spring type	

Brushes	Number	8
	Size	1.4x.5
	Shunt Len.	2.75
	Insulated	No
	TermType	Open end lug

Brg Image



Shaft Image



Brushing/sleeves



End bell



Water jacket: Ok

Fan: Ok

Frame cond.: Good



Motor Mount Position: Horizontal/Foot mount

Foot/Flange condition: Ok

Foot flatness: Pass



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.

Insulators: Salvageable Qty.

Lead support stud: Salvageable Qty.

Alternate brush image:



Rocker ring: Salvageable Qty.

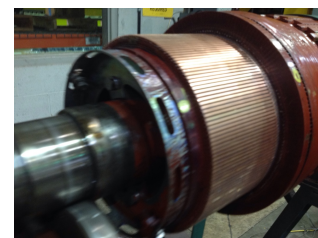
Commutator Type: Soldered

Commutator images

Commutator Hardness: Good

Commutator Condition : Salvageable

Commutator Film: Ok



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: In use

Field Test image

RTD: In use At



Thermostat: Open

Leads/jumpers: Ok

Lead jumper Image:



Conclusion

Component Failure

Shunt fields

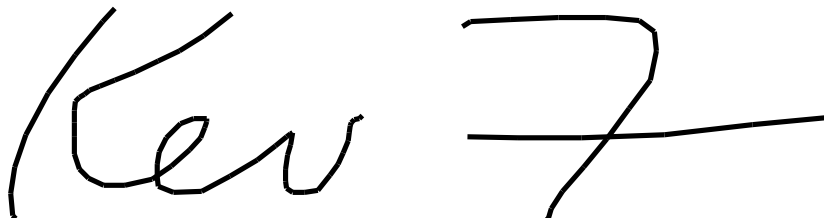
Cause of Failure

Shunt fields grounded

Comments

Service Tech name: Kev F

Service Tech
signature:

A handwritten signature in black ink that reads 'Kev F'. The 'K' is large and stylized, and the 'F' is also large and stylized, with a long horizontal stroke extending to the right.