Job Information

Job #: 95089

Date: January 12, 2019

Priority: —

Authorized OT: No

Authorized by:

Customer Information

Name: Bridgestone

Reason:

Contact:

Motor#:

PO#:

Application: —

Special notes:

Name Plate Information

Manufacturer: Reliance

Enclosure : Open Drop Proof (ODP)

Enclosure Type image

Serial#:

Model#: 01ks590717g-yet

Service Factor: 1.0

Frame: C4011atz

Horsepower/kW: 300hp

Rated RPM: 1750/2000

Armature		
	Volts	500
	Amps	482

Fields		
	Volts	300
	Amps	6.63

Nameplate

DE

ODE

F1

F2

Top

Mechanical Inspection

Inspect bolt holes and fasteners. Validate correct fasteners.

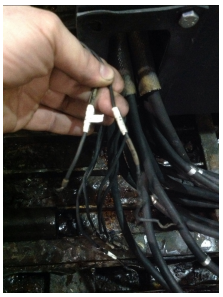
Does the shaft turn freely?:	Yes	Contaminant(s):	Other
Shaft rotation:	Bi-directional	Contaminant(s) Amt:	Other
Shaft Condition:	Good	Contaminant Image:	
Shaft grounding device present?:	No		
Type of grounding device:			
Shaft runout(TIR-Inbound):			

Bearing Type Image

Bearing Make Image

Bearing Retainer Image

Thermal Protection



Lubrication Type:	Grease	Thermal Protection device DE:	Thermal Overloads
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:	Charred
Grease Amt ODE:	Full	Grease Cond. ODE:	Charred

Mechanical Inspection (Continued)

Brushholders

Number	4
Condition	Good
Size	
Spring type	Spring

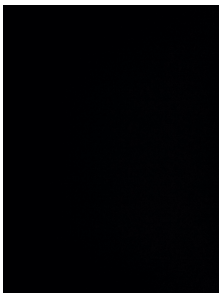
Brushes

Number	16
Size	0452AA
Shunt Len.	4 inches
Insulated	No
TermType	

Brg Image

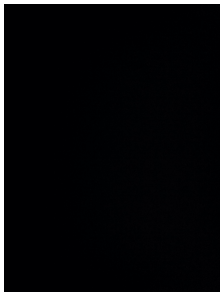
Shaft Image

Brushing/sleeves

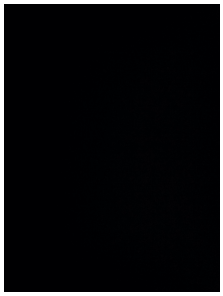


End bell

Water jacket: N/A



Fan: N/A



Frame cond.: Good

Motor Mount Position: Horizontal/Foot mount

Foot/Flange condition: Ok

Foot flatness: Pass

Mechanical Inspection (Continued)

Missing parts?

☐ 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	

Electrical Inspection

☐ Move armature imbalance to Assemble

Commutator: Salvageable

Winding Inspection

Meg Test IP to Flds: Good

Polarity Check IP to Flds: No

Meg Series to Shunt: Good

DC Electrical Inspection

Brushes:	Grooved		
Brush holders:	Salvageable	Qty.	4
Insulators:	Salvageable	Qty.	
Lead support stud:	Salvageable	Qty.	4
Rocker ring:	Salvageable	Qty.	

Brush Image:

Alternate brush image:

Commutator Type:	Soldered
Commutator Hardness:	Good
Commutator Condition :	Grooved
Commutator Film:	Black

Commutator images

Armature type:	Factory	If other
Failure mode:	Ok	If other
Failure location:	Commutator	If other
Armature condition:	Solid	If other
Winding color:	Painted	

Armature images

DC Electrical Inspection (Continued)

Armature image

Armature Test Results

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

Fields condition

Series/Stab condition: Other

Shunts condition: Ok

InterCoils condition: Replace

Fields condition image:

Fields test results

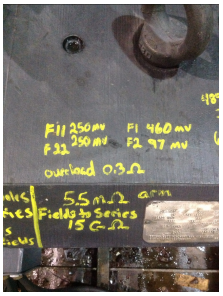
Series/Stab	Meg:	Ok	Hi Pot:	Ok	Resistance:	Ok
Shunts	Meg:	Ok	Hi Pot:	Ok	Resistance:	Ok
InterCoils	Meg:	Ok	Hi Pot:	Ok	Resistance:	Ok

Thermistors: None

RTD: None At

Thermostat: Closed

Field Test image



Leads/jumpers: Ok

Lead jumper Image:

Conclusion

Component Failure

Bearings, brushes, commutator, fields, series

Cause of Failure

Normal wear with time

Comments

The fields and series did not pass the voltage drop tests. Bearings show signs of miss-alignment.

Service Tech name: Trevor Hall

Service Tech signature: