

Job Information

Job #: 141197

Date: November 18, 2019

Priority: —

Authorized OT: No

Authorized by:

Customer Information

Name: Toyota

Reason:

Contact:

Motor#: 141197

PO#:

Application: —

Special notes:

Name Plate Information

Manufacturer: Yaskawa

Enclosure : Open Drop Proof (ODP)

Enclosure Type image

Serial#: S14E76101

Model#:

Service Factor:

Frame: 225BD

Horsepower/kW: 90

Rated RPM: 1750



Armature

Volts 440

Amps 228

Fields

Volts 150

Amps 11.1

Nameplate



DE



ODE



F1



F2



Top



Mechanical Inspection

Inspect bolt holes and fasteners. Validate correct fasteners.

Does the shaft turn freely?: Yes

Contaminant(s): Grease

Shaft rotation: Bi-directional

Contaminant(s) Amt: None

Shaft Condition: Worn

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: —

Lubrication brand inbound: Mobile Polyrex EM

Thermal Protection device ODE: —

Lubrication brand outbound: Mobile Polyrex EM

Grease Amt DE: Full

Grease Cond. DE: Charred

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	8
	Condition	Good
	Size	1.250
	Spring type	Yes

Brushes	Number	8
	Size	37775
	Shunt Len.	
	Insulated	No
	TermType	

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: Damaged/Broken

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

Yes

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: Yes

Meg Series to Shunt: Good

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DC Electrical Inspection

Brushes: Normal wear

Brush Image:



Brush holders: Salvageable Qty. 8

Insulators: Salvageable Qty.

Lead support stud: Salvageable Qty.

Alternate brush image:



Rocker ring: Salvageable Qty.

Commutator Type: Other

Commutator images

Commutator Hardness: Good

Commutator Condition : Oil soaked

Commutator Film: Ok



Armature type: Factory If other

Failure mode: Ok If other

Failure location: Front V ring If other

Armature condition: Oil soaked If other

Winding color: Like new

Armature images

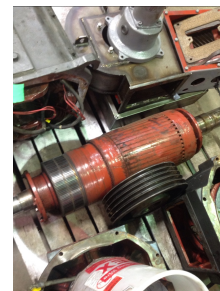


DC Electrical Inspection (Continued)

Armature Test Results

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

Armature image



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: None

At

Thermostat: Open



Leads/jumpers: Ok

Lead jumper Image:



Conclusion

Component Failure

Broken welds

Cause of Failure

Comments

Service Tech name: Jeremy Yarbrough

Service Tech
signature:

A handwritten signature in black ink, appearing to read 'J Yarbrough', written in a cursive style.