

Job Information

Job #: 138625

Date: November 28, 2018

Priority: —

Authorized OT: No

Authorized by:

Customer Information

Name: Toyota

Reason:

Contact: N/A

Motor#: 138625

PO#:

Application: Direct Drive

Special notes:

Name Plate Information

Manufacturer: Yaskawa

Enclosure : Open Drop Proof (ODP)

Enclosure Type image

Serial#: S14E78101

Model#: GBDP-K

Service Factor:

Frame: 225BD

Horsepower/kW: 90

Rated RPM: 1750



Armature

Volts 440

Amps 223

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): Carbon

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): .001



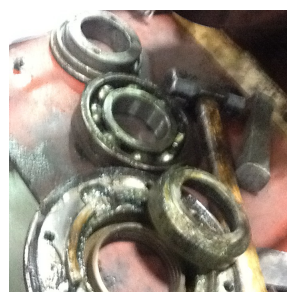
Bearing Type Image



Bearing Make Image



Bearing Retainer Image



Thermal Protection



Lubrication Type: Grease

Thermal Protection device DE: N/A

Lubrication brand inbound: Unknown

Thermal Protection device ODE: Thermal Overloads

Lubrication brand outbound: Mobile Polyrex EM

Grease Amt DE: 1/2

Grease Cond. DE: Other

Grease Amt ODE: 1/4

Grease Cond. ODE: Other

WEST TENNESSEE

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

CENTRAL ARKANSAS

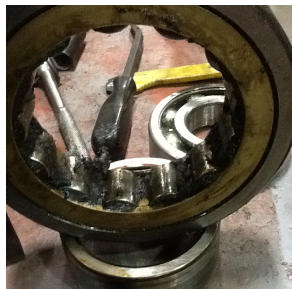
6812 Lindsey Rd.
Little Rock, AR 72206
Phone 501-375-9178
Fax 501-375-4254

Mechanical Inspection (Continued)

Brushholders	Number	8
	Condition	Good
	Size	15/16x1 3/8"
	Spring type	Yes

Brushes	Number	8
	Size	TD602 08-07
	Shunt Len.	4 1/2"
	Insulated	No
	TermType	Open

Brg Image



Shaft Image



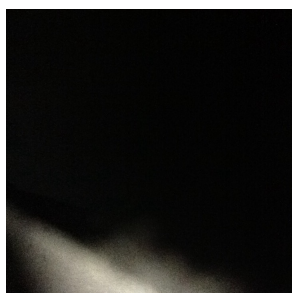
Brushing/sleeves



End bell



Water jacket: N/A



Fan: Missing



Frame cond.: Bad



Motor Mount Position: Horizontal/Foot mount

Foot/Flange condition: Damaged/Broken

Foot flatness: Fail



MILLINGTON, TN

LITTLE ROCK, AR

Mechanical Inspection (Continued)

Missing parts?

☐ J-Box cover

☐ O-rings

☐ J-Box

☐ HH cover

☐ Glands

☐ None

Other missing parts

Blower motor

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: Salvageable

Winding Inspection

Meg Test IP to Flds: Good

Polarity Check IP to Flds: —

Meg Series to Shunt: Good

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DC Electrical Inspection

Brushes: Undersize

Brush Image:



Brush holders: Salvageable Qty. 8

Insulators: Salvageable Qty. 4

Lead support stud: Salvageable Qty. 4

Alternate brush image:



Rocker ring: Salvageable Qty. 1

Commutator Type: Other

Commutator images

Commutator Hardness: Good

Commutator Condition : Oil soaked

Commutator Film: Ok



Armature type: Factory If other

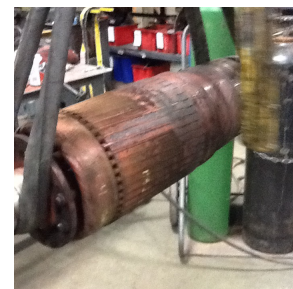
Failure mode: Ok If other

Failure location: Other If other

Armature condition: Solid 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: In use

At

Thermostat: Open





MILLINGTON, TN

LITTLE ROCK, AR

Leads/jumpers: Ok

Lead jumper Image:



Conclusion

Component Failure

Broken feet ,coupling broken, bearings bad ,turn an undercut coms and clean up

Cause of Failure

Carbon

Comments

Service Tech name: Michael

Service Tech
signature:

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