

Job Information

Job #: 139436

Date: March 26, 2019

Priority: 1Rush No OT

Authorized OT: No

Authorized by:

Customer Information

Name: Toyota

Reason:

Contact: Jake warren

Motor#: 139436

PO#:

Application: Radial Load

Special notes:

Name Plate Information

Manufacturer: Yaskawa

Enclosure : Open Drop Proof (ODP)

Enclosure Type image

Serial#: T10859101

Model#:

Service Factor:

Frame: 280BD

Horsepower/kW: 185kw

Rated RPM: 1750



Armature

Volts 440

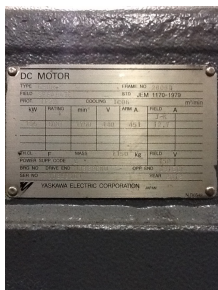
Amps 451

Fields

Volts 150

Amps 12.7

Nameplate



DE



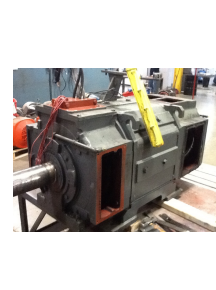
ODE



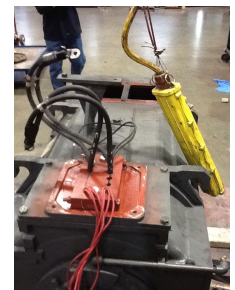
F1



F2



Top



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

Inspect bolt holes and fasteners. Validate correct fasteners.

Does the shaft turn freely?: Yes

Contaminant(s): Carbon

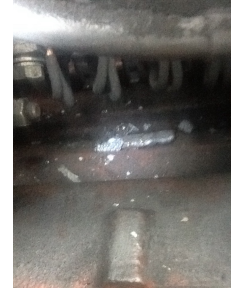
Shaft rotation: Bi-directional

Contaminant(s) Amt: Other

Shaft Condition: Good

Contaminant Image:

Shaft grounding device present?: No



Type of grounding device: N/A

Shaft runout(TIR-Inbound): .001

Bearing Type Image



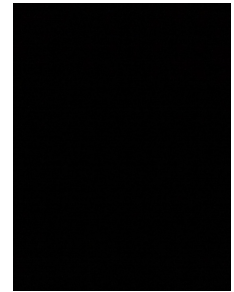
Bearing Make Image



Bearing Retainer Image



Thermal Protection



Lubrication Type: Grease

Thermal Protection device DE: —

Lubrication brand inbound: Unknown

Thermal Protection device ODE: —

Lubrication brand outbound: Mobile Polyrex EM

Grease Amt DE: Full

Grease Cond. DE: Other

Grease Amt ODE: Full

Grease Cond. ODE: Other

Mechanical Inspection (Continued)

Brushholders	Number	16
	Condition	Good
	Size	20x32
	Spring type	Yes

Brushes	Number	16
	Size	TD60
	Shunt Len.	5"
	Insulated	Yes
	TermType	Open

Brg Image



Shaft Image



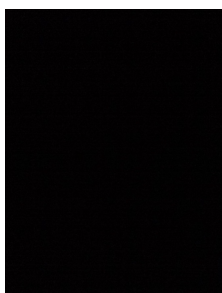
Brushing/sleeves



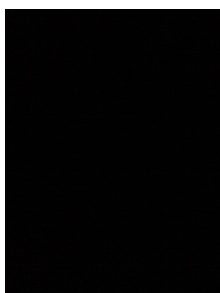
End bell



Water jacket: N/A



Fan: N/A



Frame cond.: Good



Motor Mount Position: Horizontal/Foot mount

Foot/Flange condition: Ok

Foot flatness: Pass



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: Salvageable

Winding Inspection

Meg Test IP to Flds: Good

Polarity Check IP to Flds: Yes

Meg Series to Shunt: Good

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

DC Electrical Inspection

Brushes: Other

Brush Image:

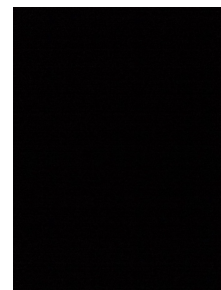


Brush holders: Salvageable Qty. 16

Insulators: Replace Qty. 4

Lead support stud: Other Qty. 4

Alternate brush image:



Rocker ring: Replace Qty. 1

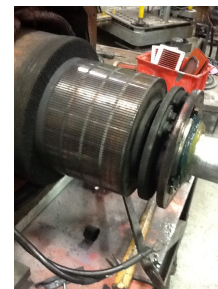
Commutator Type: Tig welded

Commutator images

Commutator Hardness: Good

Commutator Condition : Streaked

Commutator Film: Ok



Armature type: Factory If other

Failure mode: Ok If other

Failure location: Front V ring If other

Armature condition: Solid If other

Winding color: Like new

Armature images



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

DC Electrical Inspection (Continued)

Armature image

Armature Test Results



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

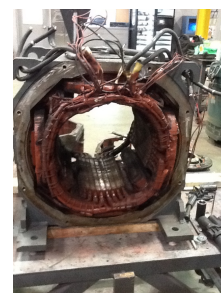
Resistance: Ok

Thermistors: In use

Field Test image

RTD: In use

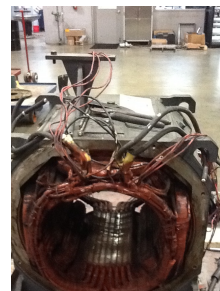
At



Thermostat: Open

Leads/jumpers: Ok

Lead jumper Image:



Conclusion

Component Failure

Rocker Ring/ DC brush holder arm

Cause of Failure

Insulation failure between brush holder arm stud bolt and rocker ring

Comments

Service Tech name: MJ

Service Tech
signature:

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