Enclosure Type image



Job Information

Job #: 137600 Date: June 22, 2018

Priority: 1A Rush/OT Authorized OT: Yes Authorized by: Andrew

Customer Information

Name: Toyota Reason:

Contact: Motor#: 137600 PO#:

Application: – Special notes:

Name Plate Information

Manufacturer: AC squirrel cage Enclosure: Open Drop Proof

machine (ODP)

Serial#: D7912620004 Model#: FDP23/9M500 0.3

HS/S1260

Service Factor: Frame:

Horsepower/kW: Rated RPM: 3600/600

Rated Amps: 3.5/22.6 Rated Voltage: 460

Phase: 3 Cycles: 60

Special design: No

Nameplate DE ODE F1 F2 Top













WEST TENNESSEE



Mechanical Inspection

Inspect bolt holes and fasteners. Validate correct fasteners.

Does the shaft turn freely?: No Contaminant(s): Other

Shaft rotation: — Contaminant(s) Amt: Other

Shaft grounding device No Contaminant Image:

present?:

Shaft runout(TIR-Inbound):

Type of grounding device:

Bearings DE: Worn Bearings DE make: SKF

Insulated: No Bearing DE Size: 211

Bearings ODE: Worn Bearings ODE make: SKF

Bearing Type: Ball Bearing ODE Size: 308

Bearings Retainer: Yes Thermal Protection: Yes

Retainer condition: Bad Thermal Protection Type: —

Bearing Type Image



Bearing Make Image



Bearing Retainer Image



Thermal Protection





Mechanical Inspection (Continued)

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: N/A Grease Cond. DE: Other

Grease Amt ODE: 0 Grease Cond. ODE: Hard

Seals DE type: N/A Seals Image:

Seals DE size: N/A

Seals DE (inbound) condition: N/A

Seals Image 2:

Seals ODE size:

Seals ODE type:

Seals ODE (inbound) condition

Shaft damage cause: None Shaft Image:

ax 901-873-5301

Isolators



Mechanical Inspection (Continued)

Brg. Image:



Bushings/sleeves image:



Water jacket: N/A

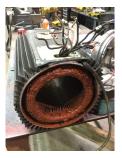


Fan: Ok



Frame cond.:

Good



Motor Mount Position:

Horizontal/Foot mount

Endbell type:

Endbell Image:

Single piece

Missing parts?

☐ J-Box cover

O-rings

☐ J-Box

☐ HH cover

Glands

☐ None

Other missing parts

D.E End bell



Mechanical Inspection (Continued)

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**

AC Electrical Inspection

Number of leads: 6 Terminal Markings: 1-2-3-4-5-11-12-13-14-15 -16 black an red

REF: NEMA Stds. MG 1-2009, Rev. 1-2010, 2.41-Terminal Length of leads: 6" Markings Identified By Color:

P1-No color assigned 5-Black 1-Blue Size of leads: 10-12

P2-Brown 2-White 6-No color assigned

7-No color assigned 3-Orange

4-Yellow 8-Red Lead condition: Worn

Connections As Received: Plug

Lug type: None

Lug size:

Lug Condition:

Lug Attachment:

Terminal



Lugs





AC Electrical Inspection (Continued)

Rotor Type: Cast Aluminum

Ok

Num rotor bars: 48

Num broken bars: 1

Rotor



Rotor Test Results

Rotor Condition:

Visual: Fail Single phase: Fail

Stator type: Factory If other, stator type:

Stator condition: Questionable If other, stator condition:

Failure location: In slot If other, stator failure:

Stator Image: Failure Image:





Fax 901-873-5301



AC Electrical Inspection (Continued)

Winding color: Like new

Winding image

Winding Thermal Protection:

Yes

Winding condition:

Solid

Winding Thermal

Protection DE:

Winding Thermal Protection ODE:

Stator test results: Rewind



Megs incoming:

Good

Surge incoming:

Bad

Hi-pot incoming:

Good

Winding Resistance Incoming

Phases A to B

Phases B to C

Phases C to A

Resistive imbalance

Incoming

Leads/jumpers:

Ok

Lead jumper Image.:



If other, leads/jumpers:



Conclusion

Component Failure

Brake Whole assembly is bad seal is bad turn in the stater on the connection in is bad this search test is bad the shaft on the rotor is bad the key for the keyways is bad

Cause of Failure

The hotspot calls from the broken rotor a bar Cause the whole rotor to expand from heat which in turn caused the aluminum break pieces to heat up and cool off faster than the steel hub Which cracked the aluminum brake disc causing

Comments

Service Tech name: Michael

Service Tech signature: