

Job Information

Job #: 138887

Date: January 11, 2019

Priority: 2

Authorized OT: No

Authorized by: Andrew

Customer Information

Name: GE Aviation

Reason:

Contact:

Motor#:

PO#:

Application: —

Special notes: Batesville ,MS

Name Plate Information

Manufacturer: GE

Enclosure : Open Drop Proof (ODP)

Enclosure Type image

Serial#: S85217692

Model#: 5KE284ATE205

Service Factor:

Frame: 284T

Horsepower/kW: 25

Rated RPM: 1760

Rated Amps: 60/30

Rated Voltage: 230/460

Phase: 3

Cycles:

Special design: No

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
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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: None

Shaft grounding device present?: No

Contaminant Image:



Type of grounding device:

Shaft runout(TIR-Inbound): .001

Bearings DE: Worn

Bearings DE make: NSK

Insulated: No

Bearing DE Size: 6312Z

Bearings ODE: Worn

Bearings ODE make: Koyo

Bearing Type: Ball

Bearing ODE Size: 6310Z

Bearings Retainer: No

Thermal Protection: No

Retainer condition: —

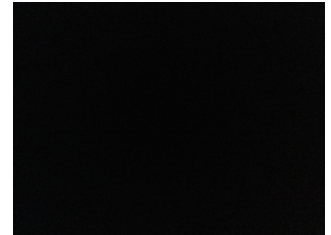
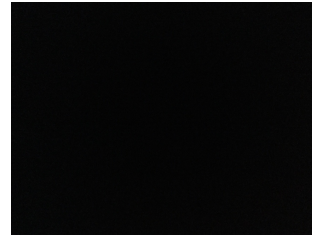
Thermal Protection Type: Thermocouple

Bearing Type Image

Bearing Make Image

Bearing Retainer Image

Thermal Protection



Mechanical Inspection (Continued)

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: New

Grease Amt ODE: Full

Grease Cond. ODE: New

Seals DE type: N/A

Seals Image:



Seals DE size:

Seals DE (inbound) condition :

Seals ODE type: N/A

Seals Image 2:



Seals ODE size:

Seals ODE (inbound) condition :

Shaft damage cause: None

Shaft Image:

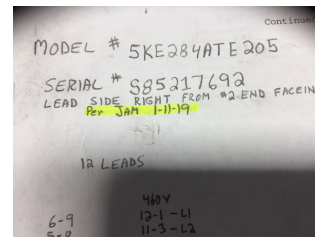


Mechanical Inspection (Continued)

Brg. Image:



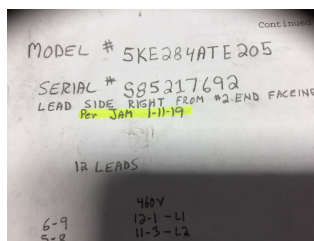
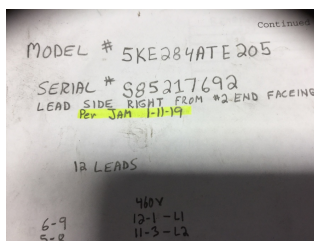
Bushings/sleeves image:



Water jacket: N/A

Fan: N/A

Frame cond.: Good



Motor Mount Position: Horizontal/Foot mount

Endbell type: Single piece

Missing parts?

☐ J-Box cover ☐ O-rings ☐ J-Box☐ HH cover ☐ Glands ☒ None

Other missing parts

Endbell Image:



Mechanical Inspection (Continued)

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

AC Electrical Inspection

Number of leads: 12

Terminal Markings: Yes

Length of leads: 6"

REF: NEMA Stds. MG 1-2009, Rev. 1-2010, 2.41-Terminal Markings Identified By Color:

Size of leads: 12awg

1-Blue
2-White
3-Orange
4-Yellow

5-Black
6-No color assigned
7-No color assigned
8-Red

P1-No color assigned
P2-Brown

Lead condition: Good

Lug type: None

Connections As Received: High Voltage

Lug Condition: —

Terminal

Lugs

Lug size:

Lug Attachment: —



AC Electrical Inspection (Continued)

Rotor Type: Cast Aluminum

Rotor

Rotor Condition: Ok

Num rotor bars: 40

Num broken bars: 0



Rotor Test Results

Visual: Pass

Growler: Pass

Single phase: Pass

Stator type: Factory

If other, stator type:

Stator condition: Ok

If other, stator condition:

Failure location: Other

If other, stator failure:

Stator Image:



Failure Image:



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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: Salvageable



Megs incoming: Good

Surge incoming: Good

Hi-pot incoming: Good

Winding Resistance Incoming

	Phases A to B	Phases B to C	Phases C to A	Resistive imbalance
Incoming	2.9	5.0	2.4	

Leads/jumpers: Ok

Lead jumper Image. :

If other, leads/jumpers:



Conclusion

Component Failure

None

Cause of Failure

Bearings and clean up

Comments

Spring washer goes in ode end bell.ode end bell fit loose,some burrs on shaft around key way need to be cleaned up,endbell baffles have small spacers between them and endbells,I marked each for location and side.it had only one pair tied with out lugs or wire nuts,believe it is high voltage.motor has key but no coupling.

Service Tech name: Jeremy Miller

Service Tech signature:

A handwritten signature in black ink that reads 'Jeremy A Miller'.**WEST TENNESSEE**

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