

Job Informatio

Job #:	138888				Date:	January 14, 2019
Priority:	2	Authorized OT:	No	Authorized by:	Andrev	N

Customer Information

Name:	GE Aviation		Reason:	Motor failure
Contact:		Motor#:		PO#:
Application:	_	Special notes:		

Name Plate Information

Manufacturer:	G3	Enclosure :	Open Drop Proof (ODP)	Enclosure Type image	
Serial#:	CTH6083514002	Model#:	5KE284AC205C		
Service Factor:		Frame:	284T		S
Horsepower/kW:	25	Rated RPM:	1760		
Rated Amps:	60/30	Rated Voltage:	230/460		C M
Phase:	3	Cycles:			
Special design:	No				
Nameplate	DE	ODE	F1	F2 Top	



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



Mechanical Inspection

Inspect bolt holes and fasteners. Validate correct fasteners.

Does the shaft turn freely?:	Yes	Contaminant(s):	Dirt
Shaft rotation:	Bi-directional	Contaminant(s) Amt:	None
Shaft grounding device present?:	No	Contaminant Image:	
Type of grounding device:			
Shaft runout(TIR-Inbound):	.000		

Bearings DE:	Worn	Bearings DE make:	NTN
Insulated:	No	Bearing DE Size:	311Z
Bearings ODE:	Worn	Bearings ODE make:	NSK
Bearing Type:	Ball	Bearing ODE Size:	6310Z
Bearings Retainer:	Yes	Thermal Protection:	No
Retainer condition:	Good	Thermal Protection Type:	_

Bearing Type Image



Bearing Make Image

Bearing Retainer Image



Thermal Protection



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



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 ODE size:

Seals ODE (inbound) condition

Shaft damage cause:

None

:

Seals Image 2:



Shaft Image:



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



Mechanical Inspection (Continued)

Brg. Image:



Bushings/sleeves image:



Water jacket: N/	Ą		Fan:	N/A	Frame co	nd.:	Good
							3*
Motor Mount Positior	n: Horizontal/Fo	oot mount			Endbell type:	Sing	le piece
Missing parts?					Endbell Image:	X	TF 80
J-Box cover	O-rings	J-Box					
HH cover	Glands	None					
Other missing parts							

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



Mechanical Inspection (Continued)

			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:	Stickers	
Length of leads:	8"	REF: NEMA Stds. Markings Identifie		2010, 2.41-Terminal
Size of leads:	12 wag	1-Blue 2-White 3-Orange	5-Black 6-No color assigned 7-No color assigned	P1-No color assigned P2-Brown
Lead condition:	Good	4-Yellow	8-Red	
Lug type:	None	Connections As Rece	eived: 460	
Lug Condition:	_	Те	erminal	Lugs
Lug size:				
Lug Attachment:	_			

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



AC Electrical Inspection (Continued)

		· · · · · · · · · · · · · · · · · · ·	Data
Rotor Type:	Cast Aluminum		Rotor
Rotor Condition:	Open bars	Num rotor bars: 40 Num broken bars: 1	
Rotor Test Results	6		
Visual: Pass		Growler: Pass Single	e phase: Pass
Stator type:	Factory	If other, stator type:	
Stator condition:	Coil-Coil short	If other, stator condition:	
Failure location:	Other	If other, stator failure:	
Stator Image:		Failure Image:	

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



AC Electrical Inspection (Continued)

Winding color:	Still has color	Winding	g image	Winding Therma	al Protection:	Yes
Winding condition :	Solid	I				
Winding Thermal Protection DE:	_					
Winding Thermal Protection ODE:	_					
Stator test results:	Rewind					
Megs incoming: Goo	d	Surge incoming:	Bad	Hi-pot ir	ncoming: G	Good
Winding Resistance In	coming					
Phase	es A to B	Phases B to C	Phases	s C to A	Resistive im	balance
Incoming 10		1.5	8.9			
Leads/jump	ers: Ok		l ead ium	per Image. :		
Leadsjump	613. OK		Lead juin	per image		
If other, leads/jumpe	ers:					

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



Conclusion

Component Failure

Winding and rotor bar

Cause of Failure

Poor rewind

Comments

Failed surge test,put 50volts on and spun little rotor well and amps even.fairly fresh rewind but not buy us.marked rotor with two green marks showing open bar.washed and baked still checks bad.

Service Tech name: Jere

Jeremy

Service Tech signature:

my Miller pre

WEST TENNESSEE 7030 Ryburn Drive Millington, TN 38053 Phone 901-873-5300

Fax 901-873-5301