

## **Job Information**

Job #:	95025				Date:	January 3, 2019
Priority:	_	Authorized OT:	No	Authorized by:		

## **Customer Information**

Name:	Flakeboard		Reason:	
Contact:		Motor#:		PO#:
Application:	_	Special notes:		

## **Name Plate Information**

Manufacturer:	Siemens	Enclosure :	Totally Enclosed Fan Cooled	Enclosure
Serial#:	E14003-01-1	Model#:	CGZ	
Service Factor:		Frame:	5810S	
Horsepower/kW:	600	Rated RPM:	1190	
Rated Amps:	579	Rated Voltage:	460	
Phase:	3	Cycles:	60	
Special design:	No			

#### Enclosure Type image



Тор

Nameplate

DE

ODE

F1

F2



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## **Mechanical Inspection**

#### Inspect bolt holes and fasteners. Validate correct fasteners.

Does the shaft turn freely?:	Yes	Contaminant(s):	None
Shaft rotation:	Bi-directional	Contaminant(s) Amt:	None
Shaft grounding device present?:	No		
Type of grounding device:			

Shaft runout(TIR-Inbound):

Bearings DE:	Worn	Bearings DE make:	NTN
Insulated:	No	Bearing DE Size:	6222 Z
Bearings ODE:	Worn	Bearings ODE make:	NTN
Bearing Type:	Ball	Bearing ODE Size:	6222 1Z
Bearings Retainer:	Yes	Thermal Protection:	Yes
Retainer condition:	_	Thermal Protection Type:	_

#### Bearing Type Image



Bearing Make Image



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#### **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 DE size:			
Seals DE (inbound) condition :			
Seals ODE type:	N/A		
Seals ODE size:			
Seals ODE (inbound) condition :			
Shaft damage cause:	None	Shaft Image:	



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#### **Mechanical Inspection (Continued)**

Brg. Image:



Bushings/sleeves image:

Not Available

Fan: Ok



Frame cond.: Good



Motor Mount Position: Horiz

Horizontal/Foot mount

Endbell type:

Single piece



Endbell Image:



🔽 None

J-Box

Other missing parts

Missing parts?

J-Box cover

HH cover

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## **Mechanical Inspection (Continued)**

Air Gap Meaurements (N/A on Single	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	

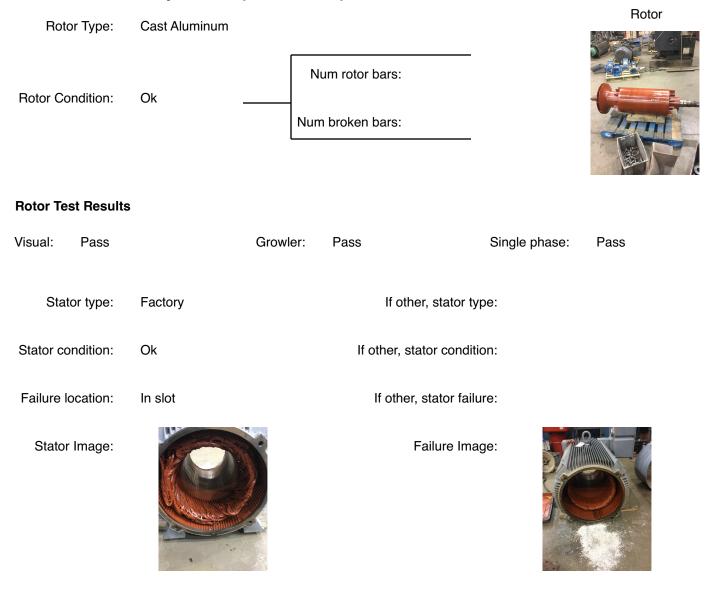
## **AC Electrical Inspection**

Number of leads:	9	Terminal Markings:	1-3	
Length of leads:		REF: NEMA Stds. Markings Identifie	. MG 1-2009, Rev. 1- d By Color:	2010, 2.41-Terminal
Size of leads:		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:		Connections As Rec	eived:	
Lug Condition:	Good	Te	erminal	Lugs
Lug size:		1	Not	
Lug Attachment:	Acceptable		ailable	

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#### **AC Electrical Inspection (Continued)**



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## **AC Electrical Inspection (Continued)**

Winding color:	Like new	Winding	g image N	Winding Thermal F	Protection: Yes	
Winding condition :	Solid					
Winding Thermal Protection DE:						
Winding Thermal Protection ODE:						
Stator test results:	Salvageable					
Megs incoming: G	lood	Surge incoming:	Good	Hi-pot inco	ming: Good	
Winding Resistance I	ncoming					
Phas	ses A to B	Phases B to C	Phases	C to A F	Resistive imbalance	
Incoming 5.52	25	5.32	5.254		4.0	
Leads/jump	oers: Ok		Lead j	umper Image. :		
If other, leads/jump	oers:				Not Available	

# **Mechanical Inspection**

Inspect bolt holes and fasteners. Validate correct fasteners.

Shaft Condition:	Good	Bearings Retainer:	Yes
Type of grounding device:		Bearing DE Size:	6222
Shaft runout(TIR-Inbound):		Bearing ODE Size:	6222

Retainer condition:

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# **Mechanical Inspection (Continued)**

Seals DE condition :	Worn	Brg. Seats DE:	Good
Seals DE type:	N/A	If DE undersized, amt.:	
Seals DE size:		Brg. Seats ODE:	Good
Seals DE (inbound) condition :		If ODE undersized, amt.:	
Seals ODE condition :	Worn	Shaft damage:	ОК
Seals ODE type:	N/A		
Seals ODE size:		Bushings/sleeves DE:	Ok
Seals ODE (inbound) condition :		Bushings/sleeves ODE:	Ok
Endbell fits/damage:	Bad	Foot/Flange condition:	Ok
Endbell DE size:	7.8761 Bad	Foot flatness:	Pass
Endbell DE insulated?:	No		stomer or EASA spec(<10%
Endbell ODE size:	7.8763 Bad	variation)?	
Endbell ODE insulated?:	No		

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#### Conclusion

**Component Failure** 

**Cause of Failure** 

Comments

Found frosting in the bearing.Both end bell bearing fits are bad

Service Tech name:

**Robert Wiley** 

Service Tech signature:

borg Willing

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