

# **Job Information**

Job #:	94779				Date:	October 4, 2018
Priority:	_	Authorized OT:	No	Authorized by:		

# **Customer Information**

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

# **Name Plate Information**

Manufacturer:	Siemens	Enclosure :	Totally Enclosed Fan Cooled
Serial#:	E120818165472300 6	Model#:	1LA9166-4KA99- ZT00
Service Factor:		Frame:	
Horsepower/kW:	30 kW	Rated RPM:	4170
Rated Amps:	70	Rated Voltage:	370
Phase:	3	Cycles:	60
Special design:	No		

#### Enclosure Type image





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# **Mechanical Inspection**

Inspect bolt holes and fasteners. Validate correct fasteners.

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

Shaft runout(TIR-Inbound):

Bearings DE:	Worn	Bearings DE make:	SKF
Insulated:	No	Bearing DE Size:	NU208 EC
Bearings ODE:	Worn	Bearings ODE make:	SKF
Bearing Type:	Roller	Bearing ODE Size:	6209 ZZ
Bearings Retainer:	Yes	Thermal Protection:	No
Retainer condition:	Good	Thermal Protection Type:	_

#### Bearing Type Image



Bearing Make Image



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**Thermal Protection** 



# **Mechanical Inspection (Continued)**

Lubrication Type:	Oil	Thermal Protection device DE:	_
Lubrication brand inbound:	Unknown	Thermal Protection device ODE:	_
Lubrication brand outbound:	Unknown		
Grease Amt DE:	0	Grease Cond. DE:	Other
Grease Amt ODE:	0	Grease Cond. ODE:	Charred
Seals DE type:	Other	Seals Image:	
Seals DE size:			
Seals DE (inbound) condition :			
Seals ODE type:	Slinger		
Seals ODE size:			
Seals ODE (inbound) condition :			
Shaft damage cause:	Other	Shaft Image:	



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

Brg. Image:



Bushings/sleeves image:



Water jacket: N/A Fan:

Broken

Frame cond.: Good



Motor Mount Position: Horizontal/Foot mount Endbell type:

Single piece

Missing parts?

HH cover

J-Box cover

O-rings J-Box None Glands

Endbell Image:





Other missing parts

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# **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:	3	Terminal Markings	:	
Length of leads:	8"	REF: NEMA Si Markings Ident	tds. MG 1-2009, Rev. 1- tified 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:	_	4-Yellow	8-Red	
Lug type:		Connections As F	Received:	
Lug Condition:	_		Terminal	Lugs
Lug size:				
Lug Attachment:	_			

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



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# **AC Electrical Inspection (Continued)**

Winding colo	r: Like new	Winding	image	Winding Thermal	Protection:	Yes
Winding condition	: Solid					
Winding Thermal Protection DE:						
Winding Therma Protection ODE	al		a de			
Stator test results	s: Rewind					
Megs incoming:	Bad	Surge incoming:	Bad	Hi-pot inc	coming: B	lad
Winding Resistance	e Incoming					
P	hases A to B	Phases B to C	Phase	s C to A	Resistive im	balance
Incoming						
Leads/ju	ımpers: Ok					

If other, leads/jumpers:

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### Conclusion

#### **Component Failure**

ODE bearing failed, ODE bearing journal is bad, windings grounded

#### Cause of Failure

ODE bearing failed from lack of lubrication. ODE has no grease zert to add grease to lube the bearing

#### Comments

The ODE endbell bearing can't be PM'd.

Service Tech name: Ly

Lynn McDonald

Service Tech signature:

Lynn McDonald

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Fax 901-873-5301