

## **Job Information**

Job #:	94524			Date:	July 19, 2018	
Priority:	_	Authorized OT:	No	Authorized by:		

# **Customer Information**

Name:	Process & Power		Reason:	
Contact:		Motor#:		PO#:
Application:	_	Special notes:		

## **Name Plate Information**

Manufacturer:		Enclosure :	Totally Enclosed Fan Cooled	Enclosure Type image
Serial#:		Model#:		
Service Factor:		Frame:		
Horsepower/kW:	200?	Rated RPM:		
Rated Amps:		Rated Voltage:		
Phase:		Cycles:		
Special design:	No			

Nameplate

DE

ODE

F1

F2

Тор

 Not<br/>Available
 Image: Second s

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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?:	No	Contaminant Image:	
Type of grounding device:			
Shaft runout(TIR-Inbound):			
Bearings DE:	Worn	Bearings DE make:	SKF

Bearings DE:	Worn	Bearings DE make:	SKF
Insulated:	No	Bearing DE Size:	
Bearings ODE:	Worn	Bearings ODE make:	SKF
Bearing Type:	Ball	Bearing ODE Size:	
Bearings Retainer:	Yes	Thermal Protection:	No
Retainer condition:	Bad	Thermal Protection Type:	_

#### Bearing Type Image



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**Thermal Protection** 

Not Available



# **Mechanical Inspection (Continued)**

_	Thermal Protection device DE:	Grease	Lubrication Type:
_	Thermal Protection device ODE:	Unknown	Lubrication brand inbound:
		Unknown	Lubrication brand outbound:
Charred	Grease Cond. DE:	0	Grease Amt DE:
Other	Grease Cond. ODE:	Full	Grease Amt ODE:
	Seals Image:	Slinger	Seals DE type: Seals DE size: Seals DE (inbound) condition :
Not Available	Seals Image 2:	Slinger	Seals ODE type: Seals ODE size: Seals ODE (inbound) condition
	Shaft Image:	None	: Shaft damage cause:



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

Brg. Image:

Water jacket:



Bushings/sleeves image:



Not Available

N/A



Ok

Fan:





 Motor Mount Position:
 Horizontal/Foot mount

 Missing parts?
 J-Box cover
 J-Box

 HH cover
 Glands
 None

Endbell type: Single piece

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:	6	Terminal Marking	s:	
Length of leads:	7'	REF: NEMA S Markings Ider	Stds. MG 1-2009, Rev. 1- htified By Color:	2010, 2.41-Terminal
Size of leads:	1/0	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	Received:	
Lug Condition:	Good		Terminal	Lugs
Lug size:			Not	
Lug Attachment:	Acceptable	A	Available	A

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



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# **AC Electrical Inspection (Continued)**

Windir	ng color:	Like new	Winding	g image	Winding Thermal	Protection:	No
Winding cc	ondition :	Solid				N	ot
Winding Protec	Thermal tion DE:	_				Avai	lable
Winding Protection	Thermal on ODE:	_					
Stator test	t results:	Rewind					
Megs incomin	ig: Bad		Surge incoming:	Bad	Hi-pot ind	coming: B	ad
Winding Rea	sistance Ind	coming					
	Phase	es A to B	Phases B to C	Phase	es C to A	Resistive im	balance
Incoming	92.12	26	0.124	0.125	5	25.9	
L	_eads/jumpe	ers: Ok		Lead jun	nper Image. :		
If other, I	leads/jumpe	ors:				Nc Availa	ot able

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### Conclusion

#### **Component Failure**

DE Bearing failure, Windings grounded

#### **Cause of Failure**

Bearing failed causing rotor to rub stator resulting in insulation failure in windings

#### Comments

Motor needs a NU type bearing on the drive end in this type application

Service Tech name: Lynn McDonald

Service Tech signature:

LynnMcDoneld

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