

Job Information

Job #:	94457				Date:	July 18, 2018
Priority:	_	Authorized OT:	No	Authorized by:		

Customer Information

Name:	UP Railroad		Reason:	
Contact:		Motor#:		PO#:
Application:	_	Special notes:		

Name Plate Information

Manufacturer:	Barnes	Enclosure :	Totally Enclosed Non-Ventilated
Serial#:	C1708077-111	Model#:	SVG5042L
Service Factor:		Frame:	
Horsepower/kW:	5	Rated RPM:	3450
Rated Amps:	11	Rated Voltage:	480
Phase:	3	Cycles:	60
Special design:	No		

Enclosure Type image



Nameplate

DE

ODE

F1







Тор

Ny .







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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:	Bi-directional	Contaminant(s) Amt:	None
Shaft grounding device present?:	No	Contaminant Image:	
Type of grounding device:			
Shaft runout(TIR-Inbound):			5

Bearings DE:	Worn	Bearings DE make:	SKF
Insulated:	No	Bearing DE Size:	6207
Bearings ODE:	Worn	Bearings ODE make:	NTN
Bearing Type:	Ball	Bearing ODE Size:	6203
Bearings Retainer:	Yes	Thermal Protection:	Yes
Retainer condition:	_	Thermal Protection Type:	_

Bearing Type Image



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Bearing Retainer Image



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:	N/A	Grease Cond. DE:	Other
Grease Amt ODE:	N/A	Grease Cond. ODE:	Other
Seals DE type: Seals DE size: Seals DE (inbound) condition :	Slinger	Seals Image:	
Seals ODE type: Seals ODE size: Seals ODE (inbound) condition :	Slinger	Seals Image 2:	

Shaft damage cause:

None

Shaft Image:



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Mechanical Inspection (Continued)

Brg. Image:



Bushings/sleeves image:

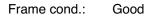


Water jacket: N/A



Fan: N/A







Motor Mount Position: Horizont

Horizontal/Foot mount

Missing parts?

Other missing parts

J-Box cover	O-rings
HH cover	Glands

None

J-Box

Endbell type:

Single piece





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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	

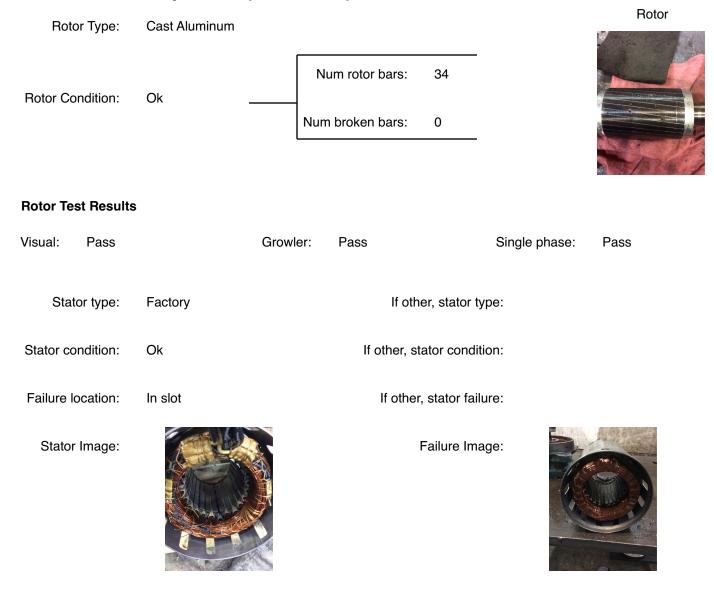
AC Electrical Inspection

Number of leads:	9	Terminal Markings:		
Length of leads:	12"	REF: NEMA Stds Markings Identifi	s. MG 1-2009, Rev. 1- ed 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 Rea	ceived:	
Lug Condition:	_	٦	Terminal	Lugs
Lug size: Lug Attachment:	_			
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AC Electrical Inspection (Continued)



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AC Electrical Inspection (Continued)

Winding color:	Still has color	Winding	image	Winding Therma	al Protection:	Yes
Winding condition :	Solid					
Winding Thermal Protection DE:	_					
Winding Thermal Protection ODE:	_	ter,				
Stator test results:	Rewind					
Megs incoming: Bad		Surge incoming:	Bad	Hi-pot ir	ncoming: Ba	ad
Winding Resistance In	coming					
Phase	es A to B	Phases B to C	Phase	es C to A	Resistive imb	alance
Incoming						
Leads/jumpe	ers: Ok		Lead jun	nper Image. :		
If other, leads/jumpe	ers:					

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Conclusion

Component Failure

Windings failed in slot

Cause of Failure

Possible seal failure.

Comments

Upon disassembly I found oil inside housing assembly contaminated with water. This contributed to the failure of the windings. Also the sensor cord was completely severed and this may have been the cause of moisture penetrating the windings as well. Additionally I found the handle broken as well.

Service Tech name:

Terrence Holland

Service Tech signature:

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