

Job Information

Job #:	94193				Date:	April 30, 2018
Priority:	_	Authorized OT:	No	Authorized by:		

Customer Information

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

Name Plate Information

Manufacturer:	Zoeller	Enclosure :	Open Drop Proof (ODP)
Serial#:	19313	Model#:	G641-A
Service Factor:		Frame:	
Horsepower/kW:	3	Rated RPM:	1750
Rated Amps:	4.8	Rated Voltage:	460
Phase:	3	Cycles:	60
Special design:	No		

Enclosure Type image





DE



F1

F2





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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:	CW	Contaminant(s) Amt:	None
Shaft grounding device present?:	No	Contaminant Image:	
Type of grounding device:			6
Shaft runout(TIR-Inbound):			

FAG	Bearings DE make:	Wor	Bearings DE:
	Bearing DE Size:	No	Insulated:
FAG	Bearings ODE make:	Wor	Bearings ODE:
	Bearing ODE Size:	Ball	Bearing Type:
Yes	Thermal Protection:	No	Bearings Retainer:
_	Thermal Protection Type:	_	Retainer condition:

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:	New
Grease Amt ODE:	N/A	Grease Cond. ODE:	New
Seals DE type: Seals DE size:	N/A	Seals Image:	

Seals DE (inbound) condition :

Seals ODE type: Slinger Seals ODE size:

:

Seals ODE (inbound) condition

Shaft damage cause:

None

Seals Image 2:



Shaft Image:



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Mechanical Inspection (Continued)

Brg. Image:



Water jacket:	N/A	Fan:	N/A	Frame co	nd.: Good
Motor Mount Pos	sition: Horizontal/F	oot mount		Endbell type:	Single piece
Missing parts	? D-rings	J-Box		Endbell Image:	

Other missing parts

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Mechanical Inspection (Continued)

Air Gap N	leaurements (N/A on Single Piece E	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:	—	Terminal Markings:	
Length of leads:		REF: NEMA Stds. MG 1-2009, Rev. 1- Markings Identified By Color:	2010, 2.41-Terminal
Size of leads:		1-Blue 5-Black 2-White 6-No color assigned 3-Orange 7-No color assigned	P1-No color assigned P2-Brown
Lead condition:	_	4-Yellow 8-Red	
Lug type:		Connections As 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 co	olor:	Dull black	Winding	g image	Winding Thermal	Protection:	No
Winding conditi	on :	Mushy				HotorAnalyzor z	100 V 074 (mm) . 100 V 074 (m
Winding Ther Protection	mal DE:	_					1-020-0000 SQUY UTS 3-95 CFS 3- SQUY UTS
Winding Ther Protection O	mal DE:	_				10 kg	
Stator test rest	ults:	Rewind					
Megs incoming:	Bad		Surge incoming:	Bad	Hi-pot inc	coming: Ba	ad
Winding Resista	ince Inc	coming					
	Phase	es A to B	Phases B to C	Phase	s C to A	Resistive imb	alance
Incoming	2.3		5.2	7.4		55	
Leads	s/jumpe	rs: Ok					

If other, leads/jumpers:

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Conclusion

Component Failure

Cause of Failure

Seal/bearings

Comments

Power cord and sensor cord were cut, and overloads and sensors were apparently not being used. Both bearings were worn and the seal failure allowed water to contaminate the stator. Also the lower seal plate has excessive amounts of corrosion and needs to be replaced. Recommend rewind of stator, replacement of all o-rings and seals as well as new power and sensor cord assemblies.

Service Tech name: Terr

Terrence Holland

Service Tech signature:

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