

Job Information

Job #:	95694				Date:	July 9, 2019
Priority:	_	Authorized OT:	No	Authorized by:		

Customer Information

Name:	Central Arkansas water		Reason:	Locking up	
Contact:		Motor#:		PO#:	
Application:	_	Special notes:			

Name Plate Information

Manufacturer:	Us	Enclosure :	Weather Protected I (WPI)	Enclosure Type image
Serial#:	2038429310016101	Model#:	C842931	
Service Factor:	1.15	Frame:	256tpa	
Horsepower/kW:	20	Rated RPM:	1775	E
Rated Amps:	47/23.7	Rated Voltage:	230/460	
Phase:	3	Cycles:	60	
Special design:	No			

Nameplate

DE

ODE

F1

F2





Тор

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Mechanical Inspection

Inspect bolt holes and fasteners. Validate correct fasteners.

Does the shaft turn freely?:	No	Contaminant(s):	Water
Shaft rotation:	CCW	Contaminant(s) Amt:	Other
Shaft grounding device present?:	Yes	Contaminant Image:	
Type of grounding device:	Ring		
Shaft runout(TIR-Inbound):	Good		
Bearings DE:	Worn	Bearings DE make:	FAG
Insulated:	No	Bearing DE Size:	7310b xltyp
Bearings ODE:	Worn	Bearings ODE make:	Other
Bearing Type:	Ball	Bearing ODE Size:	6210z
Bearings Retainer:	Yes	Thermal Protection:	No

Bearing Type Image

Retainer condition:



Bearing Make Image



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Good



Thermal Protection Type:

Thermal Protection

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Mechanical Inspection (Continued)

Lubrication Type:	Grease	Thermal Protection device DE:	N/A
Lubrication brand inbound:	Mobile Polyrex EM	Thermal Protection device ODE:	N/A
Lubrication brand outbound:	Mobile Polyrex EM		
Grease Amt DE:	Full	Grease Cond. DE:	Watery
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:



Water	jacket:	N/A
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Fan:

N/A

Frame cond.: Good



Motor Mount Position: Vertical Flange mount

J-Box

Vone

O-rings

Glands

Endbell type:

Single piece





Other missing parts

Missing parts?

J-Box cover

HH cover

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Mechanical Inspection (Continued)

Air Gap Meaurements (N/A on Single Pie	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:	10 inches	REF: NEMA Stds Markings Identifie	s. MG 1-2009, Rev. 1- ed By Color:	2010, 2.41-Terminal
Size of leads:	10 awg	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:	N/a	Connections As Rec	ceived:	
Lug Condition:	_	Т	erminal	Lugs
Lug size:		T		
Lug Attachment:	_			

A. C. M.

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AC Electrical Inspection (Continued)

Rotor Type:	Cast Aluminum	`				Rotor
Rotor Condition:	Ok	N	Num rotor bars: Num broken bars:	60 0		
Rotor Test Results						
Visual: Pass		Growler	: Pass		Single phase:	Pass
Stator type:	Factory		If othe	er, stator ty	pe:	
Stator condition:	Ok		If other, sta	ator conditi	on:	
Failure location:	Other		If other,	stator failu	ıre:	
Stator Image:						

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AC Electrical Inspection (Continued)

Winding color:	Like new	Winding	image	Winding Thermal	Protection: No
Winding condition :	Solid		3.2		
Winding Thermal Protection DE:	_		RAS)		
Winding Thermal Protection ODE:	_				
Stator test results:	Salvageable				
Megs incoming: G	ood	Surge incoming:	Good	Hi-pot inc	coming: Good
Winding Resistance Ir	ncoming				
Phas	es A to B	Phases B to C	Phase	s C to A	Resistive imbalance
Incoming					
Leads/jump	ers: Ok		Leac	l jumper Image. :	
If other, leads/jump	ers:				
Mechanical Ins	pection				

Inspect bolt holes and fasteners. Validate correct fasteners.

Shaft Condition:	Good	Bearings Retainer:	Yes
Type of grounding device:	Ring	Bearing DE Size:	7310bxltyp
Shaft runout(TIR-Inbound):	0.001	Bearing ODE Size:	6210z

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Retainer condition:

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Good



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Mechanical Inspection (Continued)

Seals DE condition :	None	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 :	None	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:	Good	Foot/Flange condition:	Ok
Endbell DE size:	4.3315	Foot flatness:	Pass
Endbell DE insulated?:	No	Does Air Gap Meet Cu	stomer or EASA spec(<10%
Endbell ODE size:	3.5441	variation)?	
Endbell ODE insulated?:	No	_	

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Conclusion

Component Failure

Ratcheting assembly

Cause of Failure

Spacing wrong on ratcheting assembly. Bearings had moisture in them

Comments

Service Tech name: Trevor Hall

Service Tech signature:



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