

Job Information

Job #:	95397				Date:	April 11, 2019
Priority:	_	Authorized OT:	No	Authorized by:		

Customer Information

Name:	Central Arkansas Water		Reason:	
Contact:		Motor#:		PO#:
Application:	_	Special notes:		

Name Plate Information

Manufacturer:	GE	Enclosure :	Open Drop Proof (ODP)	Enclosure Type image
Serial#:	8300250	Model#:		
Service Factor:	1.15	Frame:	V	
Horsepower/kW:	2000	Rated RPM:	900	
Rated Amps:	218	Rated Voltage:	4160	
Phase:	3	Cycles:	60	
Special design:	Yes			

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?:	Yes	Contaminant(s):	Water
Shaft rotation:	CW	Contaminant(s) Amt:	Full
Shaft grounding device present?:	No	Contaminant Image:	Ø
Type of grounding device:			
Shaft runout(TIR-Inbound):	0.001		
Bearings DE:	Worn	Bearings DE make:	Other
Insulated:	No	Bearing DE Size:	Kingsburry
Bearings ODE:	Worn	Bearings ODE make:	Other

Bearing Type: Ball

Bearings Retainer: Yes

Retainer condition:

Bearing Make Image



Bearing Type Image



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Good

Bearing Retainer Image

Thermal Protection Type:

Bearing ODE Size:

Thermal Protection:

12.008

Yes

RTD



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:	N/A		
Seals DE size:			
Seals DE (inbound) condition :			
Seals ODE type:	N/A		
Seals ODE size:			
Seals ODE (inbound) condition :			
Shaft damage cause:	Other	Shaft Image:	



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Mechanical Inspection (Continued)

Brg. Image:



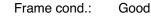
Water jacket: Leaking



Fan: Ok



Endbell Image:





Motor Mount Position:

Vertical Flange mount

Endbell type:

Single piece

Missing parts?

J-Box cover

HH cover

Glands

O-rings

None

J-Box





Other missing parts

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Mechanical Inspection (Continued)

Air Gap Mo	eaurements (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:	6	Terminal Markings	:	
Length of leads:	30 inches	REF: NEMA S Markings Iden	tds. MG 1-2009, Rev. 1- tified By Color:	-2010, 2.41-Terminal
Size of leads:	4/0	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:	Copper	Connections As F	Received:	
Lug Condition:	Good		Terminal	Lugs
Lug size:	4/0			
Lug Attachment:	_			10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -

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AC Electrical Inspection (Continued)

Rotor Type: Rotor Condition:	Synchronous rotor	Num rotor bars: 64 Num broken bars: 0		Rotor
Rotor Test Results Visual: Pass	Growl	er: Pass	Single phase:	Pass
Stator type:	Factory	If other, s	stator type:	
Stator condition:	Ok	If other, stator	condition:	
Failure location:	Other	If other, sta	tor failure:	
Stator Image:				

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AC Electrical Inspection (Continued)

Winding color:	Painted	Winding	image	Winding Therma	I Protection:	Yes
Winding condition :	Solid					
Winding Thermal Protection DE:	Good					Finter La
Winding Thermal Protection ODE:	Good				/	
Stator test results:	Salvageable					
Megs incoming: Go	ood	Surge incoming:	Good	Hi-pot in	coming:	Good
Winding Resistance In	coming					
Phase	es A to B	Phases B to C	Phase	es C to A	Resistive ir	nbalance
Incoming						
Leads/jumpe	ers: Ok		Lead	d jumper Image. :		
If other, leads/jumpe	ers:					1
Mechanical Ins		te correct facteners			1	
inspect boit notes and le	ISIGNEIS. VAIIUA					

Shaft Condition:	Good	Bearings Retainer:	Yes
Type of grounding device:		Bearing DE Size:	Kingsburry
Shaft runout(TIR-Inbound):	Good	Bearing ODE Size:	12.008
Retainer condition:	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:	Special design	Foot flatness:	Pass
Endbell DE insulated?:	No	Does Air Gap Meet Cus	tomer or EASA spec(<10%
Endbell ODE size:	Special design	variation)?	
Endbell ODE insulated?:	No		

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Conclusion

Component Failure

Upper cooling tube, lower cooling tube, upper guide bearing, upper guide bearing hub, lower bearing

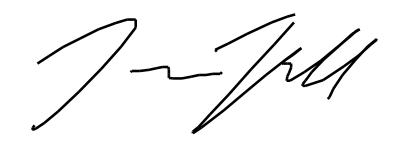
Cause of Failure

Cooling tube failed and flooded bearing housing with water causing friction between bearings and hub.

Comments

Service Tech name: Trevor Hall

Service Tech signature:



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