

Job Information

Job #:	137552				Date:	June 15, 2018
Priority:	1A Rush/OT	Authorized OT:	No	Authorized by:	Stacy	Ray

Customer Information

Name:	Chemours	hemours			
Contact:		Motor#:	137552		PO#:
Application:	Direct Drive	Special no	tes:		

Name Plate Information

Manufacturer:	Westinghouse	Enclosure :	Open Drop Proof (ODP)	Encl
Serial#:	1S-77	Model#:	HSW2	
Service Factor:	1.25	Frame:	5010-H	
Horsepower/kW:	600	Rated RPM:	33563	
Rated Amps:	634	Rated Voltage:	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):	Dirt
Shaft rotation:	_	Contaminant(s) Amt:	Quart
Shaft grounding device present?:	No	Contaminant Image:	
Type of grounding device:			
Shaft runout(TIR-Inbound):	.002		MARD STORE
Bearings DE:	Worn	Bearings DE make:	Other
Insulated:	No	Bearing DE Size:	
Bearings ODE:	Worn	Bearings ODE make:	Other
Bearing Type:	Babbitt	Bearing ODE Size:	
Bearings Retainer:	Yes	Thermal Protection:	No
Retainer condition:	Bad	Thermal Protection Type:	_
Bearing Type Image	Bearing Make Image	Bearing Retainer Image	Thermal Protection
	Not Available		Not Available

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Mechanical Inspection (Continued)

Lubrication Type:	Oil	Thermal Protection device DE:	N/A
Lubrication brand inbound:	Unknown	Thermal Protection device ODE:	N/A
Lubrication brand outbound:	Unknown		
Grease Amt DE:	1/2	Grease Cond. DE:	Other
Grease Amt ODE:	1/2	Grease Cond. ODE:	Other
Seals DE type:	Labyrinth	Seals Image:	
Seals DE size:			
Seals DE (inbound) condition :	Bad		
Seals ODE type:	Labyrinth	Seals Image 2:	
Seals ODE size:			
Seals ODE (inbound) condition :	Bad		
Shaft damage cause:	Other	Shaft Image:	



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Mechanical Inspection (Continued)

Brg. Image:



Bushings/sleeves image:





Other



N/A

Fan:





Motor Mount Position:	Horizontal/Foot mount

Missing parts?

J-Box cover	O-rings
HH cover	Glands

___ None

J-Box

Endbell type: Split type

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:	12	Terminal Markings:	1-2-3	
Length of leads:	30"	REF: NEMA Stds Markings Identifie	. MG 1-2009, Rev. 1- ed By Color:	2010, 2.41-Terminal
Size of leads:	#2	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:	550/24cu	Connections As Rec	eived: Open	
Lug Condition:	Warn	Т	erminal	Lugs
Lug size:	550/24			
Lug Attachment:	Replace			

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AC Electrical Inspection (Continued)

Rotor Type:	Cast Aluminum				Rotor
Rotor Condition:	Ok _	N	Num rotor bars: um broken bars:	34 0	
Rotor Test Results					
Visual: Pass		Growler:	Pass		Single phase: Pass
Stator type:	Factory		If othe	er, stator typ	e:
Stator condition:	Questionable		lf other, sta	ator conditio	n:
Failure location:	In slot		If other,	stator failur	e: Wedges burnt
Stator Image:			F	Failure Imag	e:

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AC Electrical Inspection (Continued)

Winding	color:	Painted	Windin	g image	Winding Thermal	Protection:	No
Winding cond	dition :	Solid					K
Winding Th Protectio	nermal on DE:	_					R
Winding Th Protection	nermal ODE:	_					
Stator test r	esults:	Rewind					
	0						
Negs incoming:	: G000	a	Surge incoming:	Bad	HI-pot inc	oming: G	1000
Winding Resis	stance In	coming					
	Phase	es A to B	Phases B to C	Phases	C to A	Resistive im	balance
Incoming	0.00	8449	0.008527	0.0084	472	0.9	
Lea	ads/jumpe	ers: Ok		Lead jum	per Image. :		
lf other, lea	ads/jumpe	ers: He ode	ater rings on e&de jumped				

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Conclusion

Component Failure

Winding

Cause of Failure

Bearing went down then caused the rotor too drag the iron

Comments

Rewind Babbitt bearings with insulator built on Mach work on shaft and end bell DE bearing housing an fits are bad also Mach work on DE bearing cap retainer seal and bushing

Service Tech name: Michael

Service Tech signature:

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