

MILLINGTON, TN LITTLE ROCK, AR

Job Information

Job #:	94974				Date:	December 11, 2018
Priority:	_	Authorized OT:	No	Authorized by:		

Customer Information

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

Name Plate Information

Manufacturer:	Rueland	Enclosure :	Totally Enclosed Non-Ventilated
Serial#:	823471A-5	Model#:	3888-XH8787C
Service Factor:		Frame:	WEF324S
Horsepower/kW:	20	Rated RPM:	1800
Rated Amps:		Rated Voltage:	460
Phase:	3	Cycles:	60
Special design:	No		

Enclosure Type image











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):	Carbon
Shaft rotation:	-	Contaminant(s) Amt:	Сир
Shaft grounding device present?:	No	Contaminant Image:	
Type of grounding device:			A Martin
Shaft runout(TIR-Inbound):			0

Bearings DE:	Worn	Bearings DE make:	SKF
Insulated:	No	Bearing DE Size:	6311 2RS
Bearings ODE:	Worn	Bearings ODE make:	SKF
Bearing Type:	Ball	Bearing ODE Size:	6311 2RS
Bearings Retainer:	No	Thermal Protection:	No
Retainer condition:	_	Thermal Protection Type:	_
Bearing Type Image	Bearing Make Image	Bearing Retainer Image	Thermal Protection



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Mechanical Inspection (Continued)

Lubrication Type:	Grease	Thermal Protection device DE:	_
Lubrication brand inbound:	Unknown	Thermal Protection device ODE:	_
Lubrication brand outbound:	Unknown		
Grease Amt DE:	0	Grease Cond. DE:	New
Grease Amt ODE:	0	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:	6



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Mechanical Inspection (Continued)

Brg. Image:



Bushings/sleeves image:



Water jacket: N/A

Fan:

N/A

Endbell Image:

Frame cond.: Good



Motor Mount Position:

O-rings

Glands

Horizontal/Foot mount

J-Box

None

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 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:	3	Terminal Markings:		
Length of leads:	12"	REF: NEMA Stds. MG 1-2009, Rev. 1-2010, 2.41-Terminal Markings Identified By Color:		
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 Re	ceived:	
Lug Condition:	_	-	Terminal	Lugs
Lug size:			o k	
Lug Attachment:	_			

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AC Electrical Inspection (Continued)

Rotor Type:	Cast Aluminum			Rotor
Rotor Condition:	Ok	Num rotor bars: Num broken bars:		
Rotor Test Results				
Visual: Pass	Grow	wler: Pass	Single phase:	Pass
Stator type: Stator condition:	Factory Ok	If other, stator t		
Failure location:	Other	If other, stator fail	lure:	
Stator Image:				

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AC Electrical Inspection (Continued)

Winding color	Dull black	Winding	g image V	Winding Thermal	Protection:	Yes	
Winding condition	Winding condition : Solid						
Winding Therma Protection DE							
Winding Therma Protection ODE		E.					
Stator test results	Salvageable						
Megs incoming:	Good	Surge incoming:	Good	Hi-pot inc	coming:	Good	
Winding Resistance	eIncoming						
Pł	nases A to B	Phases B to C	Phases	C to A	Resistive in	mbalance	
Incoming 0	.529	0.531	0.530		0.3		
Leads/ju	mpers: Ok						
If other, leads/ju	mpers:						
Mechanical Inspection							
Inspect bolt holes an	d fasteners. Validat	te correct fasteners.					

Shaft Condition:	Worn	Bearings Retainer:	No
Type of grounding device:		Bearing DE Size:	6311 2RS
Shaft runout(TIR-Inbound):		Bearing ODE Size:	6311 2RS

Retainer condition:

 WEST TENNESSEE
 CENTRAL ARKANSAS

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Mechanical Inspection (Continued)

Seals DE condition :	Worn	Brg. Seats DE:	Good
Seals DE type:	Slinger	If DE undersized, amt.:	
Seals DE size:		Brg. Seats ODE:	Good
Seals DE (inbound) condition :		If ODE undersized, amt.:	
Seals ODE condition :	Worn	Shaft damage:	ОК
Seals ODE type:	Slinger		
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:		Foot flatness:	Pass
Endbell DE insulated?:	_		stomer or EASA spec(<10%
Endbell ODE size:		variation)?	
Endbell ODE insulated?:	_		

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Conclusion

Component Failure

ODE SHAFT EXTENSION, DE & ODE Journal's Worn, ODE EB housing worn, brake hub bad, brake mounting broken

Cause of Failure

Comments

Retest windings after wash to see if merger increases, if slip ring can't be removed rotor will have to be rewound regardless. Needs new shaft and brake hub and brake mounting bracket made. ODE EB housing repair

Brake needs (2) 6014 2RS bearings

Service Tech name: Lynn M

Lynn McDonald

Service Tech signature:

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