

Job Information

Job #:	95381				Date:	March 13, 2019
Priority:	_	Authorized OT:	No	Authorized by:		

Customer Information

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

Name Plate Information

Manufacturer:	Reliance	Enclosure :	Open Drop Proof (ODP)
Serial#:		Model#:	4X321085A2-GU
Service Factor:	1.15	Frame:	444TS
Horsepower/kW:	100	Rated RPM:	1180
Rated Amps:	240/120	Rated Voltage:	230/460
Phase:	3	Cycles:	60
Special design:	No		

Enclosure Type image



Тор

Nameplate

DE

ODE

F1

F2



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Mechanical Inspection

Inspect bolt holes and fasteners. Validate correct fasteners.

Does the shaft turn freely?:	Yes	Contaminant(s):	None
Shaft rotation:	Bi-directional	Contaminant(s) Amt:	None
Shaft grounding device present?:	No		
Type of grounding device:			

Shaft runout(TIR-Inbound):

Bearings DE:	Worn	Bearings DE make:	SKF
Insulated:	No	Bearing DE Size:	6213 ZZ
Bearings ODE:	Worn	Bearings ODE make:	Other
Bearing Type:	Ball	Bearing ODE Size:	6213 ZZ
Bearings Retainer:	Yes	Thermal Protection:	Yes
Retainer condition:	_	Thermal Protection Type:	_

Bearing Type Image



Bearing Make Image



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Bearing Retainer Image



Thermal Protection





Mechanical Inspection (Continued)

Lubrication Type:	Grease	Thermal Protection device DE:	-
Lubrication brand inbound:	Mobile Polyrex EM	Thermal Protection device ODE:	_
Lubrication brand outbound:	Mobile Polyrex EM		
Grease Amt DE:	Full	Grease Cond. DE:	New
Grease Amt ODE:	Full	Grease Cond. ODE:	New
Seals DE type:	N/A	Seals Image:	
Seals DE size:			Not Available
Seals DE (inbound) condition :			
		Seals Image 2:	
Seals ODE type:	N/A		Not Available
Seals ODE size:			Available
Seals ODE (inbound) condition :			
Shaft damage cause:	None	Shaft Image:	



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Mechanical Inspection (Continued)

Brg. Image:



Bushings/sleeves image:

Not Available





Fan:

N/A

Endbell Image:

Frame cond.: Good



Motor Mount Position:

Horizontal/Foot mount

Endbell type:

Single piece

Missing parts?

J-Box cover

HH cover

J-Box O-rings Glands

None





Other missing parts

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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:	3	Terminal Markings:		
Length of leads:		REF: NEMA Stds. Markings Identifie	. MG 1-2009, Rev. 1- ed By Color:	2010, 2.41-Terminal
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 Reco	eived:	
Lug Condition:	Good	Τε	erminal	Lugs
Lug size:				
			Not	Not
Lug Attachment:	_	Ava	ailable	Available

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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	Growler	: Pass	Single phase:	Pass
Stator type:	Factory	If other, stator ty	pe:	
Stator condition:	Ok	If other, stator conditi	on:	
Failure location:	In slot	If other, stator failu	ıre:	
Stator Image:		Failure Ima	ge:	

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AC Electrical Inspection (Continued)

Winding color:	Like new	Winding	g image Wind	ing Thermal Protectic	on: No		
Winding condition :	Solid						
	Winding Thermal Protection DE:						
Winding Thermal Protection ODE:							
Stator test results:	Rewind						
Megs incoming:	Good	Surge incoming:	Good	Hi-pot incoming:	Bad		
Winding Resistance	Incoming						
Ph	ases A to B	Phases B to C	Phases C to	A Resistive	e imbalance		
Incoming 0.	00	0.00	0.00	0.00			
Leads/jun	npers: Ok		Lead jump	er Image. :			
If other, leads/jun	npers:			/	Not Available		

Mechanical Inspection

Inspect bolt holes and fasteners. Validate correct fasteners.

Shaft Condition:	Good	Bearings Retainer:	Yes
Type of grounding device:		Bearing DE Size:	6213
Shaft runout(TIR-Inbound):		Bearing ODE Size:	6213

Retainer condition:

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Mechanical Inspection (Continued)

Seals DE condition :	None	Brg. Seats DE:	Undersized
Seals DE type:	N/A	If DE undersized, amt.:	2.5588
Seals DE size:		Brg. Seats ODE:	Undersized
Seals DE (inbound) condition :		If ODE undersized, amt.:	2.5590
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:	Bad	Foot/Flange condition:	Ok
Endbell DE size:	4.7259	Foot flatness:	Pass
Endbell DE insulated?:	No		stomer or EASA spec(<10%
Endbell ODE size:	4.7259	variation)?	
Endbell ODE insulated?:	_		

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Conclusion

Component Failure

Cause of Failure

Comments

Strings burnt on both ends of stator. De and Ode bearing fits are bad on shaft also both end bell housing fits are bad .Found frosting and brenilling in both bearings

Service Tech name:

Robert Wiley

Service Tech signature:

A Willery

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