

Job Information

Job #:	97182				Date:	August 13, 2020
Priority:	_	Authorized OT:	No	Authorized by:		

Customer Information

Name:	Powers Mechanical Sevice	S	Reason:	
Contact:		Motor#:		PO#:
Application:	_	Special notes:		

Name Plate Information

Manufacturer:	Reliance	Enclosure :	Totally Enclosed Non-Ventilated
Serial#:		Model#:	
Service Factor:	1.15	Frame:	364TCZ
Horsepower/kW:	60	Rated RPM:	1775
Rated Amps:	148/74	Rated Voltage:	230/460
Phase:	3	Cycles:	60
Special design:	No		

Enclosure Type image





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):	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:	FAG
Insulated:	No	Bearing DE Size:	6313
Bearings ODE:	Worn	Bearings ODE make:	FAG
Bearing Type:	Ball	Bearing ODE Size:	6210
Bearings Retainer:	Yes	Thermal Protection:	No
Retainer condition:	Good	Thermal Protection Type:	_

Bearing Type Image



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CENTRAL ARKANSAS 6812 Lindsey Rd. Little Rock, AR 72206 Phone 501-375-9178 Fax 501-375-4254 Bearing Retainer Image



Thermal Protection



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:	Full	Grease Cond. DE:	Other
Grease Amt ODE:	Full	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:	None	Shaft Image:	

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Mechanical Inspection (Continued)

Brg. Image:



Water jacket:	N/A
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IN/A

Fan:

N/A

Endbell Image:

Frame cond.: Good



Motor Mount Position: Horizontal/Foot mount

Endbell type:

Single piece



Missing parts?

HH cover

Glands None

J-Box

Other missing parts

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Mechanical Inspection (Continued)

Air Gap M	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	

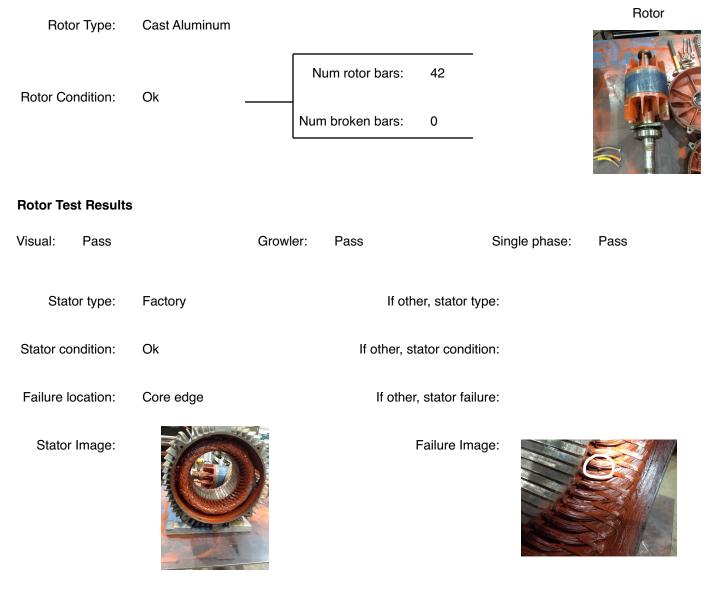
AC Electrical Inspection

Number of leads:	3	Terminal Markings:		
Length of leads:	25 in	REF: NEMA Std Markings Identifi	s. MG 1-2009, Rev. 1- ied 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 Re	ceived:	
Lug Condition:	-	-	Terminal	Lugs
Lug size:				
Lug Attachment:	_			

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AC Electrical Inspection (Continued)



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AC Electrical Inspection (Continued)

Winding color:	Painted	Winding	image V	Vinding Therma	I Protection:	No
Winding condition :	Solid	h	mante			
Winding Thermal Protection DE:						
Winding Thermal Protection ODE:	_	7				
Stator test results:	Rewind					
Megs incoming:	Good	Surge incoming:	Good	Hi-pot in	coming:	Good
Winding Resistance	Incoming					
Ph	ases A to B	Phases B to C	Phases	C to A	Resistive in	mbalance
Incoming 0.	00	0.00	0.00			
Leads/jun	npers: Ok		Lead ji	umper Image. :		
If other, leads/jun	npers:					
Mechanical In	spection					
Inspect bolt holes and	d fasteners. Validat	te correct fasteners.				

Shaft Condition:	Good	Bearings Retainer:	Yes
Type of grounding device:		Bearing DE Size:	6313
Shaft runout(TIR-Inbound):	0.01	Bearing ODE Size:	6210

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:	5.5130 GOOD	Foot flatness:	Pass
Endbell DE insulated?:	-	Does Air Gap Meet Cus	tomer or EASA spec(<10%
Endbell ODE size:	Endbell ODE size: 3.5451 BAD		
Endbell ODE insulated?:	_	_	

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Conclusion

Component Failure

Windings, bearings, and ODE bearing fit in housing.

Cause of Failure

Ground short, fluting, and wear

Comments

Recommend rewind, new bearings, and machine work,

Service Tech name:

Chris Wiley

Service Tech signature:

Chrin Will

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