

# **Job Information**

Job #:	96801				Date:	May 1, 2020
Priority:	_	Authorized OT:	No	Authorized by:		

## **Customer Information**

Name:	Searcy Water And Sewer S	System	Reason:	
Contact:		Motor#:		PO#:
Application:	_	Special notes:		

## **Name Plate Information**

Manufacturer:	Reliance	Enclosure :	Totally Enclosed Fan Cooled
Serial#:		Model#:	
Service Factor:	1.15	Frame:	364LPZ
Horsepower/kW:	40	Rated RPM:	1190
Rated Amps:	49.4	Rated Voltage:	460
Phase:	3	Cycles:	60
Special design:	No		

### Enclosure Type image



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):	Grease
Shaft rotation:	Bi-directional	Contaminant(s) Amt:	Other
Shaft grounding device present?:	No	Contaminant Image:	
Type of grounding device:			
Shaft runout(TIR-Inbound):			

Bearings DE:	Other	Bearings DE make:	Koyo
Insulated:	No	Bearing DE Size:	5215
Bearings ODE:	Worn	Bearings ODE make:	Koyo
Bearing Type:	Ball	Bearing ODE Size:	6313
Bearings Retainer:	Yes	Thermal Protection:	No
Retainer condition:	Good	Thermal Protection Type:	_

### Bearing Type Image



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Bearing Make Image

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**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:	New
Grease Amt ODE:	Full	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:	



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### **Mechanical Inspection (Continued)**

Brg. Image:



Water	iacket:	N/A

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Fan: Ok



Endbell Image:

Bad

Frame cond.:

Motor Mount Position:

Horizontal/Foot mount

J-Box

None

O-rings

Glands

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 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	

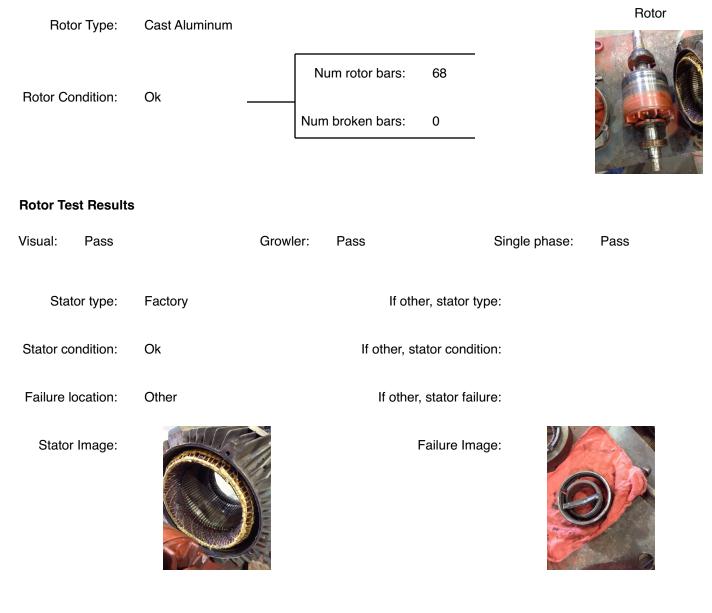
# **AC Electrical Inspection**

Number of leads:	3	Terminal Markings:				
Length of leads:	7in	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:	NA	Connections As R	eceived:			
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:	Still has color	Winding	g image	Winding The	rmal Protection	i: No	
Winding condition :	Solid						
Winding Thermal Protection DE:	_						
Winding Thermal Protection ODE:	_						
Stator test results:	Salvageable						
Megs incoming: G	ood	Surge incoming:	Good	Hi-pc	ot incoming:	Good	
Winding Resistance Ir	Winding Resistance Incoming						
Phas	es A to B	Phases B to C	Phases	C to A	Resistive	imbalance	
Incoming 0.00	)	0.00	0.00				
Leads/jump	ers: Ok		Lead	jumper Imag	e.:		
If other, leads/jump	ers:				Ň	E 200	
Mechanical Inspection							
Inspect bolt holes and f	asteners. Validat	te correct fasteners.					
Shaft Con	dition: Worn		Bearings	Retainer:	Yes		
Type of grounding d	evice:		Bearing	DE Size:	5215		

Bearing ODE Size:

6313

Shaft runout(TIR-Inbound):

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Retainer condition:

Good



# **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:	5.2011 BAD	Foot flatness:	Pass
Endbell DE insulated?:	_	Does Air Gap Meet Cus	tomer or EASA spec(<10%
Endbell ODE size:	5.5119	variation)?	
Endbell ODE insulated?:	_	_	

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### Conclusion

**Component Failure** 

**Cause of Failure** 

Comments

DE end bell is over sized and needs new bolts and spacers for fan cover cover and shaft has some wear spots. Recommend reconditioning, new bearings new bolts and spacers, and machine work.

Service Tech name: Ch

Chris Wiley

Service Tech signature:

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