

## **Job Information**

Job #:	141818				Date:	February 12, 2020
Priority:	_	Authorized OT:	No	Authorized by:	Terry f	

### **Customer Information**

Name:	City of Memphis			Reason:		
Contact:		Motor#:	141814		PO#:	
Application:	Radial Load	Special no	tes:			

### **Name Plate Information**

Manufacturer:	Gorman ruff	Enclosure :	Open Drop Proof (ODP)
Serial#:	1356676	Model#:	Js6g60-e42
Service Factor:		Frame:	
Horsepower/kW:	42	Rated RPM:	1775
Rated Amps:	52	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:	CW	Contaminant(s) Amt:	Full
Shaft grounding device present?:	No	Contaminant Image:	
Type of grounding device:			9
Shaft runout(TIR-Inbound):			1 the

Bearings DE:	Other	Bearings DE make:	FAG
Insulated:	No	Bearing DE Size:	
Bearings ODE:	Other	Bearings ODE make:	FAG
Bearing Type:	Ball	Bearing ODE Size:	
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:	Oil	Thermal Protection device DE:	Thermal Overloads
Lubrication brand inbound:	Mobile Polyrex EM	Thermal Protection device ODE:	N/A
Lubrication brand outbound:	Mobile Polyrex EM		
Grease Amt DE:	0	Grease Cond. DE:	Watery
Grease Amt ODE:	0	Grease Cond. ODE:	Watery
Seals DE type: Seals DE size: Seals DE (inbound) condition :	N/A	Seals Image:	
Seals ODE type: Seals ODE size: Seals ODE (inbound) condition :	N/A	Seals Image 2:	
Shaft damage cause:	None	Shaft Image:	



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Frame cond.:

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

Brg. Image:



Bushings/sleeves image:



Water jacket: Ok



Fan: Ok

Not Available



Good

Motor Mount Position:	Horizontal/Foc	t mount
Missing parts?		
J-Box cover	O-rings	J-Box
HH cover	Glands	None

Endbell type:

Single piece

Endbell Image:



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Other missing parts



## **Mechanical Inspection (Continued)**

Air Gap Meaurements (N/A on Single Piece	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:	6	Terminal Markings:	Blue white orange bl	lack
Length of leads:	18 inches	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:	Bad	4-Yellow	8-Red	
Lug type:	Pins	Connections As Rec	eived:	
Lug Condition:	Bad	т	erminal	Lugs
Lug size:				
Lug Attachment:	_			

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# **AC Electrical Inspection (Continued)**

Rotor Type:	Cast Aluminum	·	Rotor
Rotor Condition:	Ok	Num rotor bars: lum broken bars:	
Rotor Test Results			
Visual: Pass	Growler:	Pass	Single phase: Pass
Stator type: Stator condition:	Factory Ok	If other, stator ty If other, stator conditi	
Failure location:	In slot	If other, stator failu	re:
Stator Image:		Failure Ima	ge:

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# **AC Electrical Inspection (Continued)**

Winding c	olor:	Still has color	Winding	g image	Winding Therm	al Protection:	Yes
Winding condit	ion :	Solid	0				5.
Winding The Protection		Good		XN			
Winding The Protection C		_					
Stator test res	ults:	Rewind					
Megs incoming:	Goo	d	Surge incoming:	Good	Hi-pot i	ncoming: G	ood
Winding Resista	ance In	coming					
	Phase	es A to B	Phases B to C	Phase	es C to A	Resistive imb	alance
Incoming	0.2		0.2	0.2		0.2	
Lead	s/jumpe	ers: Ok		Lead jun	nper Image. :		
If other, lead	s/jumpe	ers:					

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### Conclusion

#### **Component Failure**

Impeller seal

#### **Cause of Failure**

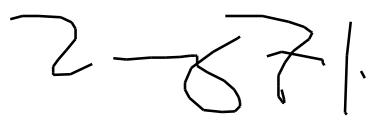
Motor overload pulling high amps popped on t block

#### Comments

Mechanical seal failed causing motor winding to collect water and grime

Service Tech name: Terry f

Service Tech signature:



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