

#### MILLINGTON, TN LITTLE ROCK, AR

# **Job Information**

Job #:	95665				Date:	June 17, 2019
Priority:	_	Authorized OT:	No	Authorized by:		

## **Customer Information**

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

# **Name Plate Information**

Manufacturer:	Us	Enclosure :	Totally Enclosed Fan Cooled	Enclosure Type imag		
Serial#:	Uj20p2jbm	Model#:	G29316			
Service Factor:	1.25	Frame:	256jm			
Horsepower/kW:	20	Rated RPM:	1770			
Rated Amps:	43/23.7	Rated Voltage:	230/460			
Phase:	3	Cycles:	60			
Special design:	No					

age



Nameplate

DE

ODE

F1

F2





Тор

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### MILLINGTON, TN LITTLE ROCK, AR

# **Mechanical Inspection**

#### Inspect bolt holes and fasteners. Validate correct fasteners.

Does the shaft turn freely?:	Yes	Contaminant(s):	None
Shaft rotation:	CCW	Contaminant(s) Amt:	None
Shaft grounding device present?:	No		
Type of grounding device:			
Shaft runout(TIR-Inbound):	0.001		
Bearings DE:	Worn	Bearings DE make:	FAG
Insulated:	No	Bearing DE Size:	6310c3n0350251hb
Bearings ODE:	Worn	Bearings ODE make:	FAG
Bearing Type:	Ball	Bearing ODE Size:	6207c3n0231747hb
Bearings Retainer:	Yes	Thermal Protection:	No
Retainer condition:	_	Thermal Protection Type:	_

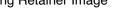
#### Bearing Type Image



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:	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:	Other	Seals Image:	
Seals DE size:	2.125/1.500		5
Seals DE (inbound) condition :	Bad		
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:



Bushings/sleeves image:



Water jacket: N/A

Fan: Ok



Frame cond.: Good



Single piece

Motor Mount Position:	Horizontal/F	oot mount	
Missing parts?			Endbell Image:
J-Box cover	O-rings	J-Box	

**N**one

Glands



Endbell type:



Other missing parts

HH cover

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# **Mechanical Inspection (Continued)**

Air Gap Mo	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**

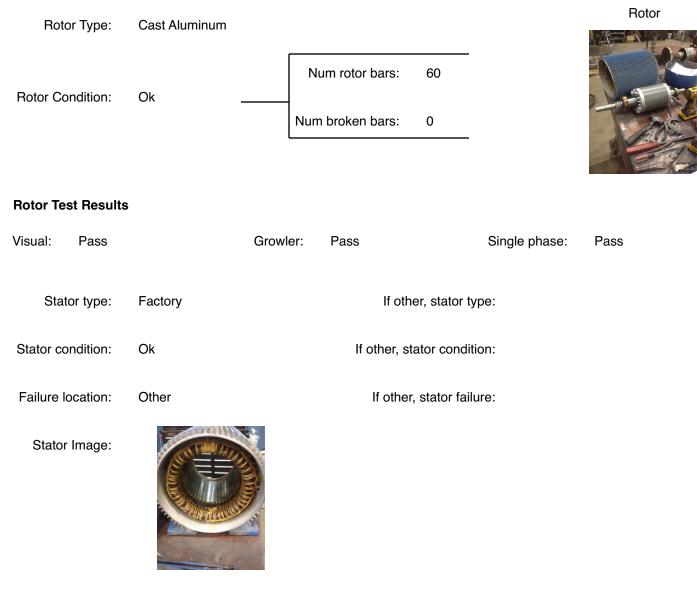
Number of leads:	9	Terminal Markings:			
Length of leads:	8 inches	REF: NEMA Stds Markings Identifie	2010, 2.41-Terminal		
Size of leads:	12awg	1-Blue5-Black2-White6-No color assigned3-Orange7-No color assigned		P1-No color assigned P2-Brown	
Lead condition:	Good	4-Yellow	8-Red		
Lug type:		Connections As Received:			
Lug Condition:	_	Т	Ferminal	Lugs	
Lug size:					
Lug Attachment:	_				

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### **AC Electrical Inspection (Continued)**



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## **AC Electrical Inspection (Continued)**

Winding color:	Like new	Winding	image	Winding Therma	al Protection	: No
Winding condition : Solid						
Winding Thermal Protection DE:	_					
Winding Thermal Protection ODE:	_					
Stator test results:	Salvageable					
Megs incoming: Go	bod	Surge incoming:	Good	Hi-pot i	ncoming:	Good
Winding Resistance In	coming					
Phas	es A to B	Phases B to C	Phase	s C to A	Resistive i	mbalance
Incoming						
Leads/jump	ers: Ok		Lead	jumper Image.	:	
If other, leads/jump	ers:					
Mechanical Inspection Inspect bolt holes and fasteners. Validate correct fasteners.						
Inspect bolt holes and ta	asteners. Valida	te correct fasteners.				
Shaft Cond	dition: Good		Bearings	Retainer: Y	⁄es	

Type of grounding device:

Shaft runout(TIR-Inbound): 0.001

Retainer condition: Good

Bearing DE Size: 6310c3n0350251hb Bearing ODE Size: 6207c3n0231747hb

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# **Mechanical Inspection (Continued)**

Seals DE condition :	Worn	Brg. Seats DE:	Good	
Seals DE type:	Other	If DE undersized, amt.:		
Seals DE size:	2.125/1.500	Brg. Seats ODE:	Good	
Seals DE (inbound) condition :	Worn	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:	4.3315	Foot flatness:	Pass	
Endbell DE insulated?:	No		tomer or EASA spec(<10%	
Endbell ODE size:	2.8353	variation)?		
Endbell ODE insulated?:	I ODE insulated?: No			

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## Conclusion

#### **Component Failure**

Seal and bearings

#### **Cause of Failure**

Trash on seal faces. Phonogrooving

#### Comments

Service Tech name: Trevor Hall

Service Tech signature:



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