

# **Job Information**

Job #:	95144				Date:	January 21, 2019
Priority:	_	Authorized OT:	No	Authorized by:		

# **Customer Information**

Name:	Afro steel		Reason:	
Contact:		Motor#:		PO#:
Application:	Direct Drive	Special notes:		

## **Name Plate Information**

Manufacturer:	BALDOR	Enclosure :	Open Drop Proof (ODP)	Enclosure Type image
Serial#:	C0204305070	Model#:	16g089w414h2	
Service Factor:		Frame:	404tsc	
Horsepower/kW:	100 hp	Rated RPM:	1780	
Rated Amps:	238/119	Rated Voltage:	230/460	
Phase:	3	Cycles:	60	
Special design:	No			

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):	Dirt
Shaft rotation:	Bi-directional	Contaminant(s) Amt:	Other
Shaft grounding device present?: Type of grounding device:	No	Contaminant Image:	F.
Shaft runout(TIR-Inbound):	0.0005		

Bearings DE:	Worn	Bearings DE make:	Коуо
Insulated:	No	Bearing DE Size:	6316z
Bearings ODE:	Worn	Bearings ODE make:	Коуо
Bearing Type:	Ball	Bearing ODE Size:	6315z
Bearings Retainer:	Yes	Thermal Protection:	No
Retainer condition:	Good	Thermal Protection Type:	_

#### Bearing Type Image



Bearing Make Image



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**Thermal Protection** 



# **Mechanical Inspection (Continued)**

Lubrication Type:	Grease	Thermal Protection device DE:	N/A
Lubrication brand inbound:	Unknown	Thermal Protection device ODE:	N/A
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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Fan:

N/A

Frame cond.:





#### Endbell type: Motor Mount Position: Horizontal/Foot mount Single piece Missing parts? Endbell Image: J-Box J-Box cover O-rings **N**one HH cover Glands

Other missing parts

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# **Mechanical Inspection (Continued)**

Air Gap Me	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**

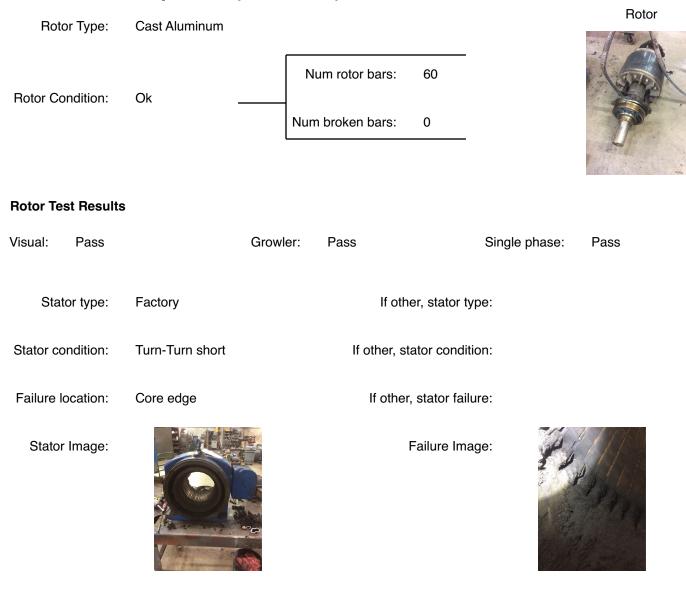
Number of leads:	3	Terminal Markings:		
Length of leads:	5 foot	REF: NEMA Stds Markings Identifi	s. MG 1-2009, Rev. 1- ed By Color:	2010, 2.41-Terminal
Size of leads:	4 awg	1-Blue 2-White 3-Orange	5-Black 6-No color assigned 7-No color assigned	P1-No color assigned P2-Brown
Lead condition:	Good	4-Yellow	8-Red	
Lug type:	None	Connections As Re	ceived:	
Lug Condition:	_	-	Terminal	Lugs
Lug size:		a a a a a a a a a a a a a a a a a a a		
Lug Attachment:	-			

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



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

Winding color:	Still has color	Winding image	Winding Thermal Protection: No
Winding condition :	Solid		
Winding Thermal Protection DE:	_		
Winding Thermal Protection ODE:	_		
Stator test results:	Rewind		
Megs incoming: Ba	ad	Surge incoming: Bad	Hi-pot incoming: Bad
Winding Resistance In	coming		
Phas	es A to B	Phases B to C	Phases C to A Resistive imbalance
Incoming			
Leads/jump	ers: Ok		Lead jumper Image. :
If other, leads/jumpo	ers:		
Mechanical Ins	pection		

Inspect bolt holes and fasteners. Validate correct fasteners.

Shaft Condition:	Good	Bearings Retainer:	Yes
Type of grounding device:		Bearing DE Size:	6316z
Shaft runout(TIR-Inbound):	Ok	Bearing ODE Size:	6315z

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Retainer condition:

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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:	6.6937	Foot flatness:	Pass
Endbell DE insulated?:	No	Does Air Gap Meet Cu	stomer or EASA spec(<10%
Endbell ODE size:	6.3002	variation)?	
Endbell ODE insulated?:	No	_	

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### Conclusion

#### **Component Failure**

Windings and bearings

#### **Cause of Failure**

Debris in windings and weak insulation

#### Comments

Service Tech name: Trevor Hall

#### Service Tech signature:

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