

## **Job Information**

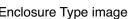
Job #:	95334				Date:	March 5, 2019
Priority:	_	Authorized OT:	No	Authorized by:		

## **Customer Information**

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

## **Name Plate Information**

Manufacturer:	U.S.	Enclosure :	Weather Protected I (WPI)	Enclosure Type im
Serial#:	T09755385110001R 000	Model#:	DN11	
Service Factor:	1.15	Frame:	H444TP	
Horsepower/kW:	150	Rated RPM:	1780	
Rated Amps:	164	Rated Voltage:	460	
Phase:	3	Cycles:	60	
Special design:	No			





Nameplate

DE

ODE

F1

F2







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### **Mechanical Inspection**

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

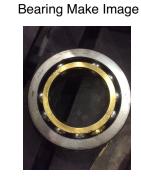
Does the shaft turn freely?:	Yes	Contaminant(s):	None
Shaft rotation:	CCW	Contaminant(s) Amt:	None
Shaft grounding device present?:	Νο		
Type of grounding device:			
Shaft runout(TIR-Inbound):			

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

#### Bearing Type Image



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**Bearing Retainer Image** 



**Thermal Protection** 



# **Mechanical Inspection (Continued)**

Lubrication Type:	Oil	Thermal Protection device DE:	_
Lubrication brand inbound:	Unknown	Thermal Protection device ODE:	_
Lubrication brand outbound:	Unknown		
Grease Amt DE:	N/A	Grease Cond. DE:	Watery
Grease Amt ODE:	Full	Grease Cond. ODE:	Watery
Seals DE type:	Slinger		
Seals DE size:			
Seals DE (inbound) condition :			
Seals ODE type:	Slinger		
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:

N/A

Frame cond.: Good



Single piece

Motor Mount Position: Horizontal/Foot mount Missing parts?

J-Box

None

O-rings

Glands



Endbell type:



Endbell Image:



Other missing parts

J-Box cover

HH cover

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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	

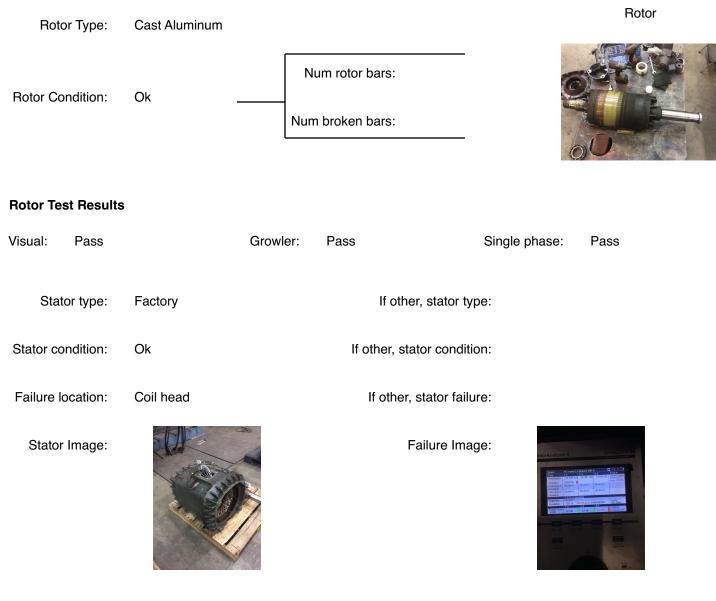
## **AC Electrical Inspection**

Number of leads:	6	Terminal Markings	:	
Length of leads:	18"	REF: NEMA St Markings Ident	ds. MG 1-2009, Rev. 1- ified 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 F	leceived:	
Lug Condition:	Good		Terminal	Lugs
Lug size:				ALC -
Lug Attachment:	Acceptable			

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



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

Winding color:	Dull black	Winding	j image	Winding Therma	I Protection	: Yes		
Winding condition :	Brittle							
Winding Thermal Protection DE:	_							
Winding Thermal Protection ODE:	_							
Stator test results:	Rewind							
Megs incoming: Ba	ad	Surge incoming:	Bad	Hi-pot in	coming:	Bad		
Winding Resistance In	coming							
Phas	es A to B	Phases B to C	Phase	es C to A	Resistive i	mbalance		
Incoming								
Leads/jump	ers: Ok							
If other, leads/jump	ers:							

# **Mechanical Inspection**

Inspect bolt holes and fasteners. Validate correct fasteners.

Shaft Condition:	Good	Bearings Retainer:	Yes
Type of grounding device:		Bearing DE Size:	7322-BEM
Shaft runout(TIR-Inbound):		Bearing ODE Size:	6215-J

Retainer condition: 0

n: 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:		Foot flatness:	Pass
Endbell DE insulated?:	No	Does Air Gap Meet Cu	stomer or EASA spec(<10%
Endbell ODE size:	5.1194 (bad)	variation)?	
Endbell ODE insulated?:	No	_	

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### Conclusion

#### **Component Failure**

Windings grounded

#### **Cause of Failure**

Excessive debris inside stator housing. Also found bottom end bell housing fit measures too large.

#### Comments

Windings grounded and require rewind. Bottom end bell bearing housing fit measures too large and requires resleeving. Evidence of frosting in ode bearing.

Service Tech name: Terrence Holland

Service Tech signature:

Hill

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