

# **Job Information**

Job #:	95673				Date:	June 21, 2019
Priority:	_	Authorized OT:	No	Authorized by:		

## **Customer Information**

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

# **Name Plate Information**

Manufacturer:	Vector	Enclosure :	Totally Enclosed Fan Cooled
Serial#:		Model#:	
Service Factor:		Frame:	D220D
Horsepower/kW:	50	Rated RPM:	1775
Rated Amps:	19.2	Rated Voltage:	460
Phase:	3	Cycles:	60
Special design:	No		

### Enclosure Type image





DE

ODE

F1

F2

Тор









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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:	Bi-directional	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:	SKF
Insulated:	No	Bearing DE Size:	6312
Bearings ODE:	Worn	Bearings ODE make:	SKF
Bearing Type:	Ball	Bearing ODE Size:	6311
Bearings Retainer:	Yes	Thermal Protection:	No

### Bearing Type Image

Retainer condition:



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Good



Thermal Protection Type:

Bearing Retainer 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:	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:	Keyway bad	Shaft Image:	



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## **Mechanical Inspection (Continued)**

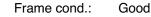
Brg. Image:



Water	jacket:	N/A
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Fan: Ok







Single piece

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

Glands

Vone



Endbell type:



Other missing parts

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	

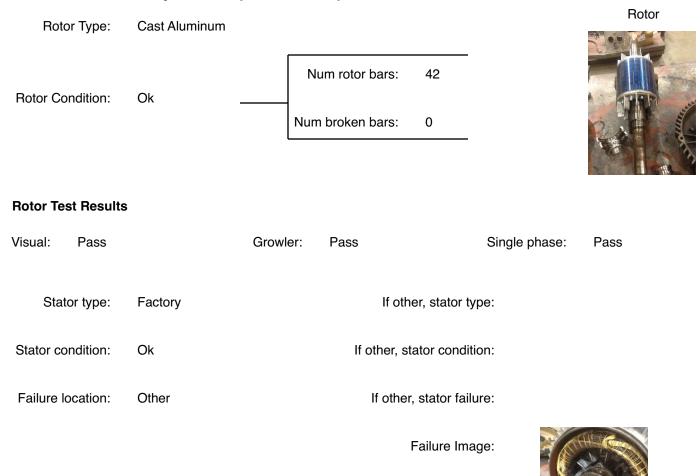
# **AC Electrical Inspection**

Number of leads:	3	Terminal Markings:			
Length of leads:	15 1/2 inch	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:		Connections As Re	ceived:		
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 Therma	al Protection:	No
Winding condition :	Solid					
Winding Thermal Protection DE:	_					
Winding Thermal Protection ODE:	_	<b>a</b> 1	- 3			
Stator test results:	Salvageable					
Megs incoming:	Good	Surge incoming:	Good	Hi-pot ir	ncoming:	Good
Winding Resistance	Incoming					
Ph	ases A to B	Phases B to C	Phase	es C to A	Resistive in	mbalance
Incoming 0.	00	0.00	0.00			
Leads/jun	npers: Ok		Lead	d jumper Image.		
If other, leads/jun	npers:					SI
Mechanical In	-					
Inspect bolt holes and	d fasteners. Validat	te correct fasteners.				

Shaft Condition:	Damaged	Bearings Retainer:	Yes
Type of grounding device:		Bearing DE Size:	6312
Shaft runout(TIR-Inbound):	0.003	Bearing ODE Size:	6311

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Retainer condition:

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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:	End bell broke	Foot flatness:	Pass	
Endbell DE insulated?:	_	Does Air Gap Meet Cus	stomer or EASA spec(<10%	
Endbell ODE size:	4.7243	variation)?		
Endbell ODE insulated?:	_			

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### Conclusion

**Component Failure** 

**Cause of Failure** 

Comments

Bearings showed signs of wear and the shaft fit is worn causing shaft failure

Service Tech name:

Chris Wiley

Service Tech signature:

Onto Mung

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