Job Information

Job #: 140307 Date: July 31, 2019

Priority: — Authorized OT: No Authorized by:

Customer Information

Name: Process Power Reason:

Contact: Jennifer McClain Motor#: PO#:

Application: Direct Drive Special notes:

Name Plate Information

Manufacturer:	Ingersoll-Rand	Enclosure :	Open Drop Proof (ODP)
Serial#:	23827140	Model#:	
Service Factor:	1.21	Frame:	280S/M
Horsepower/kW:	200	Rated RPM:	1733
Rated Amps:	228	Rated Voltage:	460
Phase:	3	Cycles:	
Special design:	No		

Enclosure Type image

Nameplate

DE

ODE

F1

F2

Top

Mechanical Inspection

Inspect bolt holes and fasteners. Validate correct fasteners.

Does the shaft turn freely?:	No	Contaminant(s):	Carbon
Shaft rotation:	Bi-directional	Contaminant(s) Amt:	Other
Shaft grounding device present?:	No	Contaminant Image:	
Type of grounding device:			
Shaft runout(TIR-Inbound):			

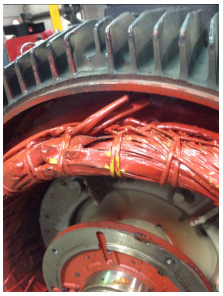
Bearings DE:	Worn	Bearings DE make:	SKF
Insulated:	No	Bearing DE Size:	6319
Bearings ODE:	Worn	Bearings ODE make:	SKF
Bearing Type:	Ball	Bearing ODE Size:	6316-2Z
Bearings Retainer:	Yes	Thermal Protection:	Yes
Retainer condition:	—	Thermal Protection Type:	—

Bearing Type Image

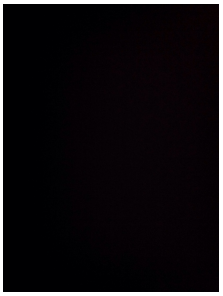
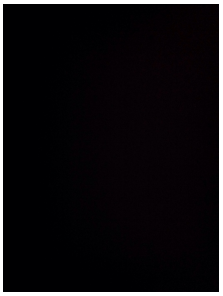
Bearing Make Image

Bearing Retainer Image

Thermal Protection



Mechanical Inspection (Continued)

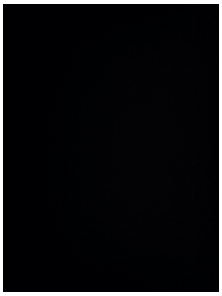
Lubrication Type:	Grease	Thermal Protection device DE:	N/A
Lubrication brand inbound:	Mobile Polyrex EM	Thermal Protection device ODE:	N/A
Lubrication brand outbound:	Mobile Polyrex EM		
Grease Amt DE:	0	Grease Cond. DE:	Charred
Grease Amt ODE:	0	Grease Cond. ODE:	Hard
Seals DE type:	N/A	Seals Image:	
Seals DE size:			
Seals DE (inbound) condition :			
		Seals Image 2:	
Seals ODE type:	Slinger		
Seals ODE size:			
Seals ODE (inbound) condition :			
Shaft damage cause:	Other	Shaft Image:	

Mechanical Inspection (Continued)

Brg. Image:

Bushings/sleeves image:

Water jacket: Ok



Fan: Ok

Frame cond.: Good

Motor Mount Position: Horizontal/Foot mount

Endbell type: Single piece

Missing parts?

- ☐ J-Box cover
- ☐ O-rings
- ☐ J-Box
- ☐ HH cover
- ☐ Glands
- ☐ None

Endbell Image:

Other missing parts

Missing one spring for outer retainer on ode end

Mechanical Inspection (Continued)

Air Gap Meaurements (N/A on Single Piece Endbell)		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
Length of leads:	5ft
Size of leads:	50mm
Lead condition:	Good
Lug type:	Single hole
Lug Condition:	Good
Lug size:	1/2 in
Lug Attachment:	Acceptable

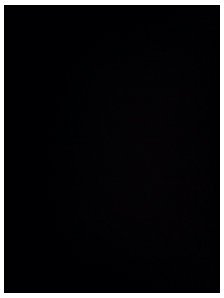
Terminal Markings: T1/U1,T2/V1,T3/W1 T4/U2,T5/V2,T6/W2

REF: NEMA Stds. MG 1-2009, Rev. 1-2010, 2.41-Terminal Markings Identified By Color:

1-Blue	5-Black	P1-No color assigned
2-White	6-No color assigned	P2-Brown
3-Orange	7-No color assigned	
4-Yellow	8-Red	

Connections As Received:

Terminal



Lugs

AC Electrical Inspection (Continued)

Rotor Type: Cast Aluminum

Rotor Condition: Ok

Num rotor bars: 40

Num broken bars:

Rotor

Rotor Test Results

Visual: Pass Growler: Pass Single phase: Pass

Stator type: Factory If other, stator type:

Stator condition: Ok If other, stator condition:

Failure location: In slot If other, stator failure:

Stator Image:

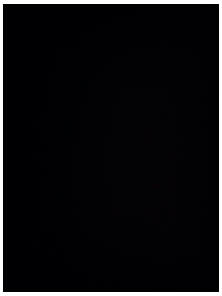
Failure Image:

AC Electrical Inspection (Continued)

Winding color: Dull black

Winding image

Winding Thermal Protection: No



Winding condition : Solid

Winding Thermal Protection DE: —

Winding Thermal Protection ODE: —

Stator test results: Rewind

Megs incoming: Good

Surge incoming: Bad

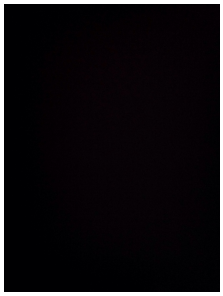
Hi-pot incoming: Bad

Winding Resistance Incoming

	Phases A to B	Phases B to C	Phases C to A	Resistive imbalance
Incoming				

Leads/jumpers: Ok

Lead jumper Image. :



If other, leads/jumpers: None

Conclusion

Component Failure

Blown in slot

Cause of Failure

Bearing failure

Comments

Drive end bearing failure causing rotor to drag and blow winding

Service Tech name: Jeremy Yarbrough

Service Tech signature: