Job Information

Job #:	140672			Date:	September 20, 2019
Priority:	—	Authorized OT:	No	Authorized by:	Terry f

Customer Information

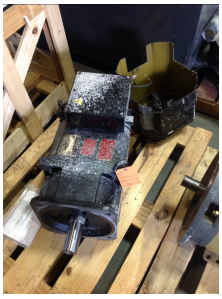
Name:	KTG			Reason:	
Contact:		Motor#:		PO#:	
Application:	—	Special notes:			

Name Plate Information

Manufacturer:	Allen Bradley	Enclosure :	Open Drop Proof (ODP)	Enclosure Type image
Serial#:	Hook-81609e-ha42	Model#:		
Service Factor:		Frame:		
Horsepower/kW:	48 kw	Rated RPM:	2965	
Rated Amps:	88/154	Rated Voltage:	460	
Phase:		Cycles:		
Special design:	No			

Nameplate

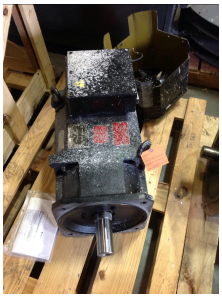
DE



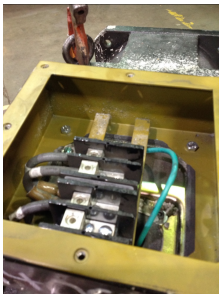
ODE

F1

F2



Top



Mechanical Inspection

Inspect bolt holes and fasteners. Validate correct fasteners.

Does the shaft turn freely?:	Yes	Contaminant(s):	Other
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:	610
Bearings ODE:	Worn	Bearings ODE make:	SKF
Bearing Type:	Ball	Bearing ODE Size:	212
Bearings Retainer:	Yes	Thermal Protection:	Yes
Retainer condition:	Good	Thermal Protection Type:	Thermocouple

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

Mechanical Inspection (Continued)

Brg. Image:

Bushings/sleeves image:

Water jacket: N/A

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

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: 3

Length of leads: 18inches

Size of leads: AWG 1

Lead condition: —

Lug type: None

Lug Condition: —

Lug size:

Lug Attachment: —

Terminal Markings: T123

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

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

Connections As Received:

Terminal

Lugs

AC Electrical Inspection (Continued)

Rotor Type: Cast Aluminum

Rotor Condition: Ok

Num rotor bars:	42
Num broken bars:	0

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 condition :	Charred
Winding Thermal Protection DE:	Good
Winding Thermal Protection ODE:	Bad
Stator test results:	Rewind

Winding image

Winding Thermal Protection: Yes

Megs incoming: Bad

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	0	0	0	

Leads/jumpers: Ok

If other, leads/jumpers:

Lead jumper Image. :

Conclusion

Component Failure

Windings, shaft, bearings

Cause of Failure

I'd of bearing spun on shaft causing rotor to drag causing windings to overheat and short to ground

Comments

Overloads ohms .2
Need overloads when ass put butsplice with longer wire running to ode of motor in fan

Service Tech name: Terry f

Service Tech signature: