Job Information

Job #: 94485 Date: July 3, 2018

Priority: — Authorized OT: No Authorized by:

Customer Information

Name: City of Hot Springs Reason:

Contact: Motor#: PO#:

Application: — Special notes:

Name Plate Information

Manufacturer:	US Motors	Enclosure :	Weather Protected I (WPI)
Serial#:	C03798060097T-GT	Model#:	H0150V2SLG
Service Factor:		Frame:	444TP
Horsepower/kW:	150	Rated RPM:	1785
Rated Amps:	169	Rated Voltage:	460
Phase:	3	Cycles:	60
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?:	Yes	Contaminant(s):	None
Shaft rotation:	—	Contaminant(s) Amt:	None
Shaft grounding device present?:	No	Contaminant Image:	Not Available
Type of grounding device:			
Shaft runout(TIR-Inbound):			

Bearings DE:	Worn	Bearings DE make:	Other
Insulated:	No	Bearing DE Size:	7322
Bearings ODE:	Worn	Bearings ODE make:	Other
Bearing Type:	Ball	Bearing ODE Size:	6215
Bearings Retainer:	Yes	Thermal Protection:	No
Retainer condition:	Bad	Thermal Protection Type:	—

Bearing Type Image

Bearing Make Image

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:	Mobile Polyrex EM		
Grease Amt DE:	Full	Grease Cond. DE:	Other
Grease Amt ODE:	Full	Grease Cond. ODE:	Other
Seals DE type:	N/A	Seals Image:	
Seals DE size:			Not Available
Seals DE (inbound) condition :			
		Seals Image 2:	
Seals ODE type:	N/A		Not Available
Seals ODE size:			
Seals ODE (inbound) condition :			
Shaft damage cause:	None	Shaft Image:	

Mechanical Inspection (Continued)

Brg. Image:

Bushings/sleeves image:

Water jacket: N/A

Fan: N/A

Frame cond.: Good

Not Available

Not Available

Motor Mount Position: Vertical Flange 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: 6

Length of leads: 12”

Size of leads:

Lead condition: Good

Lug type:

Lug Condition: Good

Lug size:

Lug Attachment: Acceptable

Terminal Markings:

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

Not Available

Lugs

AC Electrical Inspection (Continued)

Rotor Type: Cast Aluminum

Rotor Condition: Broken bars

Num rotor bars:

Num broken bars: 11

Rotor

Rotor Test Results

Visual: Pass

Growler: Fail

Single phase: Fail

Stator type: Factory

If other, stator type:

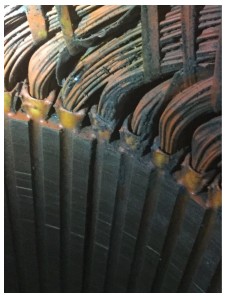
Stator condition: Questionable

If other, stator condition:

Failure location: Other

If other, stator failure:

Stator Image:



Failure Image:

Not Available

AC Electrical Inspection (Continued)

Winding color:	Painted	Winding image		Winding Thermal Protection:	Yes
Winding condition :	Brittle			Not Available	
Winding Thermal Protection DE:	Good				
Winding Thermal Protection ODE:	—				
Stator test results:	Salvageable				

Megs incoming: Good Surge incoming: Good Hi-pot incoming: Good

Winding Resistance Incoming

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

Leads/jumpers: Ok Lead jumper Image. :

Not Available

If other, leads/jumpers:

Conclusion

Component Failure

Rotor

Cause of Failure

Core checking the rotor it showed 11 broken bars

Comments

Motor not feasible to repair.

Service Tech name: Lynn McDonald

Service Tech signature: