

Job Information

Job #: 140281

Date: July 29, 2019

Priority: 3

Authorized OT: No

Authorized by:

Customer Information

Name: Metal Prep

Reason:

Contact:

Motor#:

PO#:

Application: Direct Drive

Special notes:

Name Plate Information

Manufacturer: Demag

Enclosure : Totally Enclosed
Fan Cooled

Enclosure Type image

Serial#: 70614291

Model#: KBF112

Service Factor:

Frame: IMB14

Horsepower/kW: 3.10

Rated RPM: 810/3250

Rated Amps: 2.2/4.6

Rated Voltage: 460

Phase: 3

Cycles: 60

Special design: No



Nameplate

DE

ODE

F1

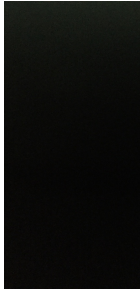
F2

Top



Mechanical Inspection

Inspect bolt holes and fasteners. Validate correct fasteners.

Does the shaft turn freely?:	No	Contaminant(s):	None
Shaft rotation:	Bi-directional	Contaminant(s) Amt:	None
Shaft grounding device present?:	No	Contaminant Image:	
Type of grounding device:	N/A		
Shaft runout(TIR-Inbound):	N/A		
Bearings DE:	Worn	Bearings DE make:	Other
Insulated:	No	Bearing DE Size:	Rollway 51110
Bearings ODE:	Worn	Bearings ODE make:	NTN
Bearing Type:	Ball	Bearing ODE Size:	305 x2
Bearings Retainer:	Yes	Thermal Protection:	Yes
Retainer condition:	Good	Thermal Protection Type:	Thermocouple

Bearing Type Image



Bearing Make Image



Bearing Retainer Image



Thermal Protection



WEST TENNESSEE

7030 Ryburn Drive
Millington, TN 38053
Phone 901-873-5300
Fax 901-873-5301

CENTRAL ARKANSAS

6812 Lindsey Rd.
Little Rock, AR 72206
Phone 501-375-9178
Fax 501-375-4254

Mechanical Inspection (Continued)

Lubrication Type: Grease

Thermal Protection device DE: Good

Lubrication brand inbound: Unknown

Thermal Protection device ODE: Good

Lubrication brand outbound: Unknown

Grease Amt DE: Full

Grease Cond. DE: Charred

Grease Amt ODE: N/A

Grease Cond. ODE: Other

Seals DE type: Other

Seals Image:

Seals DE size: 35-62-6/58-70.5-5

Seals DE (inbound) condition : Worn



Seals ODE type: Other

Seals Image 2:

Seals ODE size: 35-62-6

Seals ODE (inbound) condition : Worn



Shaft damage cause: None

Shaft Image:



Mechanical Inspection (Continued)

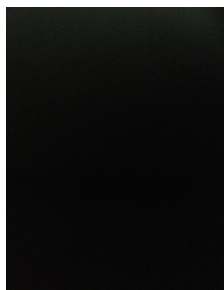
Brg. Image:



Bushings/sleeves image:



Water jacket: N/A



Fan: Ok



Frame cond.: Good



Motor Mount Position: Horizontal/Foot mount

Endbell type: Single piece

Missing parts?

- | | | |
|--------------------------------------|----------------------------------|--|
| <input type="checkbox"/> J-Box cover | <input type="checkbox"/> O-rings | <input type="checkbox"/> J-Box |
| <input type="checkbox"/> HH cover | <input type="checkbox"/> Glands | <input checked="" type="checkbox"/> None |

Other missing parts

Endbell Image:



N/A

Mechanical Inspection (Continued)

Air Gap Measurements (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

Terminal Markings: T1, T2, T3, T11, T12, T13

Length of leads: 20"

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

Size of leads: 16 AWG

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

Lead condition: Good

Lug type: Round

Connections As Received: Ok

Lug Condition: Good

Lug size: 16 AWG

Lug Attachment: Replace

Terminal



Lugs



AC Electrical Inspection (Continued)

Rotor Type: Cast Aluminum

Rotor

Rotor Condition: Ok

Num rotor bars: 26

Num broken bars: 0



Rotor Test Results

Visual: Pass

Growler: Pass

Single phase: Pass

Stator type: Factory

If other, stator type: N/A

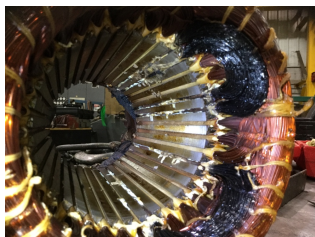
Stator condition: Ground

If other, stator condition: N/A

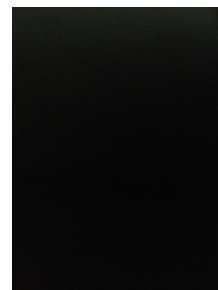
Failure location: In slot

If other, stator failure: N/A

Stator Image:



Failure Image:



WEST TENNESSEE

7030 Ryburn Drive
Millington, TN 38053
Phone 901-873-5300
Fax 901-873-5301

CENTRAL ARKANSAS

6812 Lindsey Rd.
Little Rock, AR 72206
Phone 501-375-9178
Fax 501-375-4254

AC Electrical Inspection (Continued)

Winding color: Still has color

Winding image

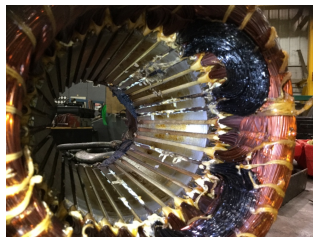
Winding Thermal Protection: Yes

Winding condition : Charred

Winding Thermal Protection DE: Good

Winding Thermal Protection ODE: —

Stator test results: Rewind



Megs incoming: Bad

Surge incoming: Bad

Hi-pot incoming: Bad

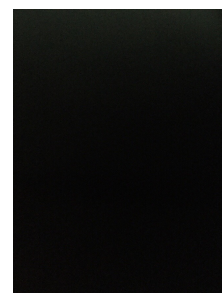
Winding Resistance Incoming

	Phases A to B	Phases B to C	Phases C to A	Resistive imbalance
Incoming	0.27	0.88	0.00	0.0

Leads/jumpers: Ok

Lead jumper Image. :

If other, leads/jumpers: N/A



Conclusion

Component Failure

Motor windings burnt

Cause of Failure

Single Phased

Comments

Service Tech name: Erich Sodam

Service Tech signature:

A handwritten signature in black ink, appearing to read 'E. Sodam', written in a cursive style.**WEST TENNESSEE**

7030 Ryburn Drive
Millington, TN 38053
Phone 901-873-5300
Fax 901-873-5301

CENTRAL ARKANSAS

6812 Lindsey Rd.
Little Rock, AR 72206
Phone 501-375-9178
Fax 501-375-4254