

Job Information

Job #: 139027

Date: January 31, 2019

Priority: —

Authorized OT: No

Authorized by:

Customer Information

Name: Insituform /ms

Reason:

Contact: Larry shearon

Motor#: 139027

PO#:

Application: —

Special notes:

Name Plate Information

Manufacturer: Leroy somer

Enclosure : Open Drop Proof (ODP)

Enclosure Type image

Serial#: 6655484/6

Model#: MS1001L05

Service Factor: S1

Frame:

Horsepower/kW: 2kw

Rated RPM: 3300



Armature

Volts 310

Amps 7.6

Fields

Volts 190

Amps 4

Nameplate

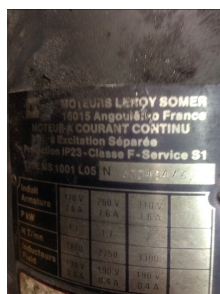
DE

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 Condition: —

Contaminant Image:

Shaft grounding device present?: No

Type of grounding device:

Shaft runout(TIR-Inbound):



Bearing Type Image



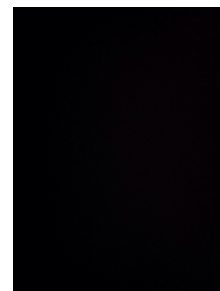
Bearing Make Image



Bearing Retainer Image



Thermal Protection



Lubrication Type: Oil

Thermal Protection device DE: —

Lubrication brand inbound: Mobile Polyrex EM

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

Mechanical Inspection (Continued)

Brushholders	Number	2
	Condition	Good
	Size	
	Spring type	Constant tension

Brushes	Number	2
	Size	Ls23
	Shunt Len.	2"
	Insulated	Yes
	TermType	

Brg Image



Shaft Image



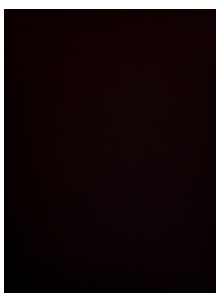
Brushing/sleeves



End bell



Water jacket: N/A



Fan: Ok



Frame cond.: Good



Motor Mount Position: Horizontal/Foot mount

Foot/Flange condition: Ok

Foot flatness: Pass



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Mechanical Inspection (Continued)

Missing parts?

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

Other missing parts

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

Electrical Inspection

☐ Move armature imbalance to Assemble

Commutator: Salvageable

Winding Inspection

Meg Test IP to Flds: Good

Polarity Check IP to Flds: —

Meg Series to Shunt: Good

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

DC Electrical Inspection

Brushes: Normal wear

Brush Image:



Brush holders: Salvageable Qty. 2

Insulators: Salvageable Qty. 2

Lead support stud: Salvageable Qty. 4

Alternate brush image:

Rocker ring: Other Qty. 0



Commutator Type: Tig welded

Commutator images

Commutator Hardness: Good

Commutator Condition : Oil soaked

Commutator Film: Ok



Armature type: Factory If other

Failure mode: Ground If other

Failure location: Commutator If other

Armature condition: Rewind If other

Winding color: Still has color

Armature images



DC Electrical Inspection (Continued)

Armature Test Results

Megs: Bad Hi-pot: Bad Core loss: Good

Armature image



Fields condition

Series/Stab condition: Ok

Fields condition image:



Shunts condition: Ok

InterCoils condition: Ok

Fields test results

Series/Stab Meg: Ok

Hi Pot: Ok

Resistance: Ok

Shunts Meg: Ok

Hi Pot: Ok

Resistance: Ok

InterCoils Meg: Ok

Hi Pot: Ok

Resistance: Ok

Thermistors: None

Field Test image

RTD: None

At



Thermostat: None



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Leads/jumpers: Ok

Lead jumper Image:



Conclusion

Component Failure

Bad bearings an armature is bad

Cause of Failure

Bearing went down and and caused the armature too drag the iron

Comments

Service Tech name: Michael

Service Tech
signature:

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