

### Job Information

Job #: 142103

Date: March 19, 2020

Priority: —

Authorized OT: No

Authorized by: Terry

### Customer Information

Name: Mauser

Reason: Evaluating motor gearbox

Contact:

Motor#:

PO#:

Application: —

Special notes:

### Name Plate Information

Manufacturer: Sew

Enclosure : Open Drop Proof (ODP)

Enclosure Type image

Serial#: 05.1938054004

Model#:

Service Factor: 1.15

Frame:

Horsepower/kW: 7.5

Rated RPM: 1760

Rated Amps: 15/20/8

Rated Voltage: 380/420/220

Phase: 3

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?: — Contaminant(s): None

Shaft rotation: — Contaminant(s) Amt: None

Shaft grounding device present?: No Contaminant Image:



Type of grounding device:

Shaft runout(TIR-Inbound):

Bearings DE: Worn Bearings DE make: FAG

Insulated: No Bearing DE Size:

Bearings ODE: Worn Bearings ODE make: FAG

Bearing Type: Ball Bearing ODE Size:

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: Thermal Overloads

Lubrication brand outbound: Mobile Polyrex EM

Grease Amt DE: Full

Grease Cond. DE: Hard

Grease Amt ODE: Full

Grease Cond. ODE: Gritty

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: 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:



## 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: 1-6

Length of leads: AWG 6

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

Size of leads: 3 inches

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	

Lead condition: —

Lug type: Regular

Connections As Received:

Lug Condition: Good

Terminal

Lugs

Lug size:



Lug Attachment: —

## AC Electrical Inspection (Continued)

Rotor Type: Cast Aluminum

Rotor

Rotor Condition: Ok

Num rotor bars:	28
Num broken bars:	0



### 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: Like new

Winding image

Winding Thermal Protection: Yes

Winding condition : Solid

Winding Thermal Protection DE: —

Winding Thermal Protection ODE: —

Stator test results: Rewind



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	0.3	0.3	0.3	0.3

Leads/jumpers: Ok

Lead jumper Image. :

If other, leads/jumpers:



## Conclusion

### Component Failure

Brake and o.d.e bearing

### Cause of Failure

Needs new brake and back bearing

### Comments

Picked motor up at Mauser on 3/14/20 brought motor back to shop. When evaluating the motor the mechanic found the motor had a bad brake coil inside brake. The brake pad was worn down were there was no gears left on brake pad. Also the o.d.e bearing was warn because of brake failure.

Service Tech name: Terry f

Service Tech signature:

