

### Job Information

Job #: 95477

Date: April 16, 2019

Priority: —

Authorized OT: No

Authorized by:

### Customer Information

Name: AFT

Reason:

Contact:

Motor#:

PO#:

Application: —

Special notes:

### Name Plate Information

Manufacturer: HEW

Enclosure : Open Drop Proof (ODP)

Enclosure Type image

Serial#: 969

Model#:

Service Factor:

Frame:

Horsepower/kW: 11kw

Rated RPM: 3514

Rated Amps: 21.2

Rated Voltage: 460

Phase: 3

Cycles: 60

Special design: Yes



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: Bi-directional Contaminant(s) Amt: None

Shaft grounding device present?: No

Type of grounding device:

Shaft runout(TIR-Inbound): .0005

Bearings DE: Worn Bearings DE make: FAG

Insulated: No Bearing DE Size: 63092zc3

Bearings ODE: Worn Bearings ODE make: FAG

Bearing Type: Ball Bearing ODE Size: 63092zc3

Bearings Retainer: Yes Thermal Protection: No

Retainer condition: Good Thermal Protection Type: —

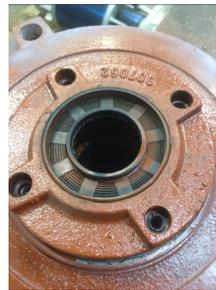
Bearing Type Image



Bearing Make Image



Bearing Retainer Image



Thermal Protection

## Mechanical Inspection (Continued)

Lubrication Type: Grease

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: New

Grease Amt ODE: Full

Grease Cond. ODE: New

Seals DE type: Isolators

Seals Image:

Seals DE size: 45-80-10

Seals DE (inbound) condition : Good



Seals ODE type: Isolators

Seals Image 2:

Seals ODE size: 45-80-10

Seals ODE (inbound) condition : Good



Shaft damage cause: None

## Mechanical Inspection (Continued)

Brg. Image:



Water jacket: N/A

Fan: Ok

Frame cond.: Good



Motor Mount Position: Vertical Flange 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 |

Endbell Image:



Other missing parts

## 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:

Length of leads: 6 inches

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

Size of leads: 12 awg

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: Good

Connections As Received:

Lug type: Copper

Lug Condition: Good

Terminal



Lug size: 12 awg

Lugs



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: Other

If other, stator failure:

Stator Image:



## AC Electrical Inspection (Continued)

Winding color: Painted

Winding image

Winding Thermal Protection: Yes

Winding condition : Solid



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	0.471	0.471	0.472	0.2

Leads/jumpers: Ok

Lead jumper Image. :



If other, leads/jumpers:

## Mechanical Inspection

Inspect bolt holes and fasteners. Validate correct fasteners.

Shaft Condition: Good

Bearings Retainer: Yes

Type of grounding device:

Bearing DE Size: 63092zc3

Shaft runout(TIR-Inbound): .0005

Bearing ODE Size: 63092zc3

Retainer condition: Good



### Mechanical Inspection (Continued)

Seals DE condition :	Worn	Brg. Seats DE:	Good
Seals DE type:	Isolators	If DE undersized, amt.:	
Seals DE size:	45-80-10	Brg. Seats ODE:	Good
Seals DE (inbound) condition :	Worn	If ODE undersized, amt.:	
Seals ODE condition :	Worn	Shaft damage:	OK
Seals ODE type:	Isolators		
Seals ODE size:	45-80-10	Bushings/sleeves DE:	Ok
Seals ODE (inbound) condition :	Worn	Bushings/sleeves ODE:	Ok
Endbell fits/damage:	Good	Foot/Flange condition:	Ok
Endbell DE size:	3.9372	Foot flatness:	Pass
Endbell DE insulated?:	No	Does Air Gap Meet Customer or EASA spec(<10% variation)?	
Endbell ODE size:	3.9373		
Endbell ODE insulated?:	No		

## Conclusion

### Component Failure

Bearings

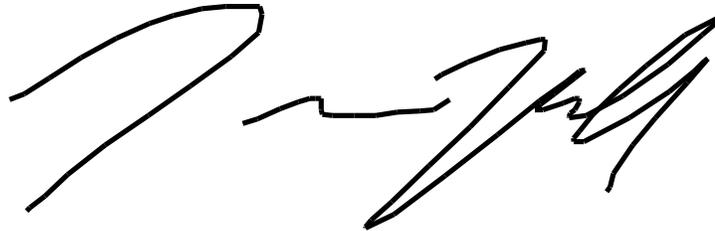
### Cause of Failure

### Comments

Preventative maintenance

Service Tech name: Trevor Hall

Service Tech signature:

A handwritten signature in black ink, appearing to read 'Trevor Hall', is written over a white background.