

Job Information

140626 Job #: Date: September 12,

2019

Priority: Authorized OT: No Authorized by:

Customer Information

Name: Forterra Reason:

Contact: Motor#: 140626 PO#:

Application: Special notes:

Name Plate Information

Manufacturer: Hawkeyes Enclosure: Open Drop Proof **Enclosure Type image**

(ODP)

ITV-VR/36-11000 Serial#: 161336738 Model#:

Service Factor: Frame:

Horsepower/kW: 5.8hp Rated RPM: 3600

Rated Amps: 13.8/6.9 Rated Voltage: 230/460

Phase: 3 Cycles: 60

Special design: No

Nameplate DE ODE F1 F2 Top













Fax 901-873-5301

CENTRAL ARKANSAS



Mechanical Inspection

Type of grounding device:

Shaft runout(TIR-Inbound):

Bearings DE:

Inspect bolt holes and fasteners. Validate correct fasteners.

.001

Worn

Does the shaft turn freely?: Yes Contaminant(s): Other

Shaft rotation: Bi-directional Contaminant(s) Amt: None

Shaft grounding device No Contaminant Image:

present?:

Insulated: No Bearing DE Size: NJ2312ECP/C4VQ015

Bearings ODE: Worn Bearings ODE make: SKF

Bearing Type: Roller Bearing ODE Size: NJ2312ECP/ C4VQ015

Bearings Retainer: Yes Thermal Protection: Yes

Retainer condition: Good Thermal Protection Type: Thermocouple

Bearing Type Image



Bearing Make Image



Bearing Retainer Image

Bearings DE make:

SKF



Thermal Protection





Mechanical Inspection (Continued)

Lubrication Type: Grease Thermal Protection device DE: Thermal Overloads

Lubrication brand inbound: Unknown Thermal Protection device ODE:

Lubrication brand outbound: Unknown

> Grease Amt DE: Full Grease Cond. DE: New

Grease Amt ODE: Full Grease Cond. ODE: New

Seals DE type: Seals Image: Other

Seals DE size: O ring

Seals DE (inbound) condition: Fair

Seals ODE type:

Seals Image 2:

Seals ODE size: O ring

Seals ODE (inbound) condition Fair

Other

Shaft damage cause: Shaft Image: None



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Mechanical Inspection (Continued)

Brg. Image:



Bushings/sleeves image:



Water jacket:

Ok

Fan:

Ok

Frame cond.:

Good



an. O



Motor Mount Position:

Horizontal/Foot 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: 9 Terminal Markings: 1-9

Length of leads: 10" REF: NEMA Stds. MG 1-2009, Rev. 1-2010, 2.41-Terminal Markings Identified By Color:

Markings Identified By Color:

Size of leads: 14 1-Blue 5-Black P1-No color assigned

2-White 6-No color assigned P2-Brown

3-Orange 7-No color assigned

Lead condition: Bad 4-Yellow 8-Red

Connections As Received: 460
Lug type: Reg

Lug Condition: Bad Terminal

Lug size: 14

Lug Attachment: Replace









AC Electrical Inspection (Continued)

Rotor Type: Cast Aluminum

Ok

Num rotor bars: 28

Num broken bars: 0

Rotor



Rotor Test Results

Rotor Condition:

Visual: Pass Growler: Pass Single phase: Pass

Stator type: Factory If other, stator type:

Stator condition: Roast-out If other, stator condition: Rewind

Failure location: Coil head If other, stator failure: Coil head

Stator Image: Failure Image:







AC Electrical Inspection (Continued)

Winding color: Dull black Winding image Winding Thermal Protection: Yes

Winding condition: Charred

Winding Thermal Protection DE:

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 100 100 9.3

Leads/jumpers: Replace Lead jumper Image. :

If other, leads/jumpers:





Conclusion

Component Failure

Winding is bad it roasted the DE bearings are warn ODE END BELL IS BUSTED PUSH OFF BOLT HOLE

Cause of Failure

It appears too had went to ground caused by water getting inside the stator do too the o rings not holding a water tight seal and the winding is fully incapacitated but the water was still able too get inside that causing it too go to ground and

Comments

Only use KIUBER ISOFLEX NBU15 GREASE IN THE BEARINGS
AFTER MOTOR IS DIPPED AND BAKED WINDING SHOULD BE INCAPACITATED TOO MAKE IT WATER THIGHT
AND ORDER THREE NEW O RINGS
REPAIR NUMBER 2 END. BELL
CHECK FITS

Service Tech name: Michael

Service Tech signature: