

### **Job Information**

140493 Job #: Date: August 29, 2019

Priority: Authorized OT: No Authorized by:

### **Customer Information**

Name: **HSLR** Reason:

Contact: Motor#: 140493 PO#:

Application: Special notes:

### **Name Plate Information**

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

(ODP) N02062425-18T137X383 Serial#: Model#:

N062/0271

Service Factor: 1.00 Frame: 447T

Horsepower/kW: 150 Rated RPM: 1190

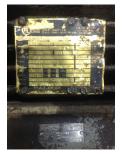
Rated Amps: 174 Rated Voltage: 460

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?: Yes Contaminant(s): Dirt

Shaft rotation: Bi-directional Contaminant(s) Amt: Cup

Shaft grounding device No

present?: Contaminant Image:

Type of grounding device: Copper lug inside the t

box

Shaft runout(TIR-Inbound): .001

Bearings DE: Worn Bearings DE make: Timken

Insulated: No Bearing DE Size: 6319-ZZ

Bearings ODE: Worn Bearings ODE make: SKF

Bearing Type: Ball Bearing ODE Size: 6314-ZZ

Bearings Retainer: Yes Thermal Protection: Yes

Retainer condition: Good Thermal Protection Type: Thermocouple

Bearing Type Image



Bearing Make Image



Bearing Retainer Image



Thermal Protection





## **Mechanical Inspection (Continued)**

Lubrication Type: Grease Thermal Protection device DE: Bad

Lubrication brand inbound: Unknown Thermal Protection device ODE: —

Lubrication brand outbound: Mobile Polyrex EM

Grease Amt DE: 1/4 Grease Cond. DE: Charred

Grease Amt ODE: 1/4 Grease Cond. ODE: Charred

Seals DE type: N/A Seals Image:

Seals DE size:

Seals ODE type: N/A

Seals ODE size:

Seals ODE (inbound) condition

Seals DE (inbound) condition:

Shaft damage cause: None Shaft Image:



# **Mechanical Inspection (Continued)**

Brg. Image:



Bushings/sleeves image:



Water jacket:

Ok



Fan:

Ok

Frame cond.:

Good



Endbell type:

Endbell Image:

Single piece

Missing parts?

☐ J-Box cover

Motor Mount Position:

O-rings

Horizontal/Foot mount

☐ J-Box

☐ HH cover

Glands

✓ None

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: 3 Terminal Markings: 1-2-3

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

Markings Identified By Color:

Size of leads: 1/0 1-Blue 5-Black P1-No color assigned

Terminal

2-White 6-No color assigned P2-Brown

3-Orange 7-No color assigned

Lead condition: Worn 4-Yellow 8-Red

Connections As Received: Open Lug type: N/A

Lug Attachment: Replace



Lug Condition:

Lug size:

N/A



# **AC Electrical Inspection (Continued)**

Rotor Type: Cast Aluminum

Ok

Num rotor bars: 59

Num broken bars: 0

Rotor



#### **Rotor Test Results**

**Rotor Condition:** 

Visual: Pass Growler: Pass Single phase: Pass

Stator type: HISI If other, stator type:

Stator condition: Other If other, stator condition: Bad

Failure location: Other If other, stator failure: Failed surge

Stator Image: Failure Image:







# **AC Electrical Inspection (Continued)**

Winding color: Like new Winding image Winding Thermal Protection:

Winding condition: Solid

Winding Thermal Protection DE:

Winding Thermal Protection ODE:

Stator test results: Rewind



ection: Yes

Megs incoming: Good Surge incoming: Bad Hi-pot incoming: Good

**Winding Resistance Incoming** 

Phases A to B Phases B to C Phases C to A Resistive imbalance

Incoming 0.028 0.028 0.028 0.6

Leads/jumpers: Replace Lead jumper Image. :

If other, leads/jumpers:





### Conclusion

Com	pon	ent	Fail	ure
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Bearings and the winding

#### **Cause of Failure**

Bearings on the drive end were over heating the overloads are bad and the winding failed the surge test

#### **Comments**

Rewind the stator Replace the bearings Replace the bearings Replace the overloads

Service Tech name: Michael

Service Tech signature: