

## Job Information

Job #: 139619

Date: April 26, 2019

Priority: —

Authorized OT: No

Authorized by:

## Customer Information

Name: KTG

Reason:

Contact: Cindy Davis

Motor#: 139619

PO#:

Application: Direct Drive

Special notes:

## Name Plate Information

Manufacturer: Teco

Enclosure : Open Drop Proof (ODP)

Enclosure Type image

Serial#: SYP7135623001

Model#: AEHH8N

Service Factor: 1.15

Frame: 405T

Horsepower/kW: 75

Rated RPM: 1180

Rated Amps: 172/85.9

Rated Voltage: 230/460

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?:	No	Contaminant(s):	Dirt
Shaft rotation:	Bi-directional	Contaminant(s) Amt:	Other
Shaft grounding device present?:	No	Contaminant Image:	
Type of grounding device:	N/A		
Shaft runout(TIR-Inbound):	Bad		

Bearings DE:	Fell Apart	Bearings DE make:	NTN
Insulated:	No	Bearing DE Size:	6317
Bearings ODE:	Worn	Bearings ODE make:	NTN
Bearing Type:	Ball	Bearing ODE Size:	6313
Bearings Retainer:	Yes	Thermal Protection:	No
Retainer condition:	Good	Thermal Protection Type:	—

Bearing Type Image



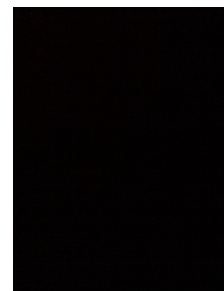
Bearing Make Image



Bearing Retainer Image



Thermal Protection



## Mechanical Inspection (Continued)

Lubrication Type: Grease

Thermal Protection device DE: N/A

Lubrication brand inbound: Unknown

Thermal Protection device ODE: N/A

Lubrication brand outbound: Mobile Polyrex EM

Grease Amt DE: Full

Grease Cond. DE: Hard

Grease Amt ODE: Full

Grease Cond. ODE: Hard

Seals DE type: Other

Seals Image:

Seals DE size: N/A

Seals DE (inbound) condition : Check

Seals ODE type: Other

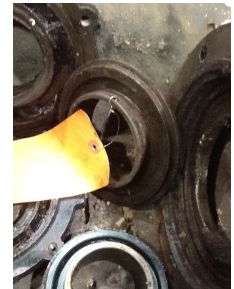
Seals Image 2:

Seals ODE size: N/A

Seals ODE (inbound) condition : Check

Shaft damage cause: Other

Shaft Image:



### WEST TENNESSEE

7030 Ryburn Drive  
Millington, TN 38053  
Phone 901-873-5300  
Fax 901-873-5301

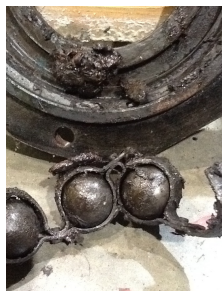
### CENTRAL ARKANSAS

6812 Lindsey Rd.  
Little Rock, AR 72206  
Phone 501-375-9178  
Fax 501-375-4254



## Mechanical Inspection (Continued)

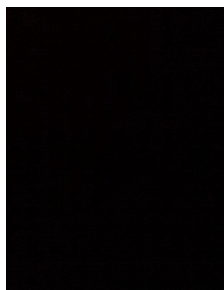
Brg. Image:



Bushings/sleeves image:



Water jacket:     Ok



Fan:     Ok



Frame cond.:     Good



Motor Mount Position:     Horizontal/Foot mount

Endbell type:     Single piece

Missing parts?

☐ J-Box cover     ☐ O-rings     ☐ J-Box☐ HH cover     ☐ Glands     ☐ 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: 12

Terminal Markings: T1throughT12

Length of leads: 12"

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

Size of leads: 6

1-Blue  
2-White  
3-Orange  
4-Yellow

5-Black  
6-No color assigned  
7-No color assigned  
8-Red

P1-No color assigned  
P2-Brown

Lead condition: Worn

Lug type: Reg

Connections As Received: T1-T12/T2-T10/T3-T11 are on the line

Lug Condition: Warn

Lug size: 3/8

Lug Attachment: Replace

Terminal



Lugs



## AC Electrical Inspection (Continued)

Rotor Type: Cast Aluminum

Rotor Condition: Ok

Num rotor bars:

Num broken bars:

Rotor



### Rotor Test Results

Visual: Fail

Growler: Pass

Single phase: Pass

Stator type: Factory

If other, stator type:

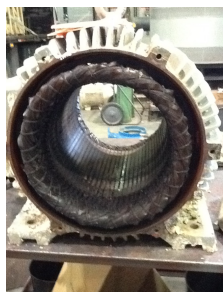
Stator condition: Roast-out

If other, stator condition:

Failure location: In slot

If other, stator failure:

Stator Image:



Failure Image:



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## AC Electrical Inspection (Continued)

Winding color: Dull black

Winding image

Winding Thermal Protection: Yes

Winding condition : Solid

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

Leads/jumpers: Ok

Lead jumper Image. :

If other, leads/jumpers:





MILLINGTON, TN

LITTLE ROCK, AR

## Conclusion

### Component Failure

Bearings & winding

### Cause of Failure

Bearing on drive end went down

### Comments

Service Tech name: Michael Jordan

Service Tech signature:

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