

## Job Information

Job #: 140054

Date: June 27, 2019

Priority: —

Authorized OT: No

Authorized by:

## Customer Information

Name: Onsite

Reason:

Contact:

Motor#: 140054

PO#:

Application: —

Special notes:

## Name Plate Information

Manufacturer: TECO

Enclosure : Totally Enclosed  
Fan Cooled

Enclosure Type image

Serial#: QD Q6 183539004

Model#: NPO254

Service Factor: 1.15

Frame: 284T

Horsepower/kW: 25

Rated RPM: 1765

Rated Amps: 58.2/29.1

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?:	Yes	Contaminant(s):	None
Shaft rotation:	Bi-directional	Contaminant(s) Amt:	None
Shaft grounding device present?:	Yes	Contaminant Image:	
Type of grounding device:	Bolt too the term box		
Shaft runout(TIR-Inbound):	.001		

Bearings DE:	Worn	Bearings DE make:	NSK
Insulated:	No	Bearing DE Size:	6311
Bearings ODE:	Worn	Bearings ODE make:	NSK
Bearing Type:	Ball	Bearing ODE Size:	6310
Bearings Retainer:	Yes	Thermal Protection:	No
Retainer condition:	Good	Thermal Protection Type:	—

Bearing Type Image



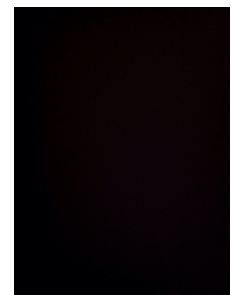
Bearing Make Image



Bearing Retainer Image



Thermal Protection





MILLINGTON, TN

LITTLE ROCK, AR

## 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: N/A

Seals Image:

Seals DE size:

Seals DE (inbound) condition :

Seals ODE type: N/A

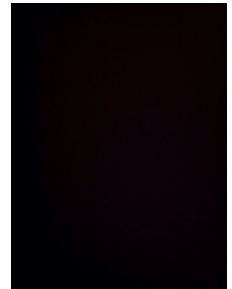
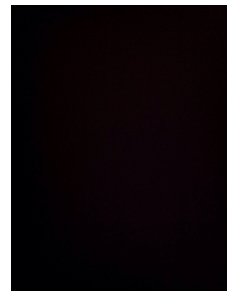
Seals Image 2:

Seals ODE size:

Seals ODE (inbound) condition  
:

Shaft damage cause: None

Shaft Image:



### WEST TENNESSEE

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

### CENTRAL ARKANSAS

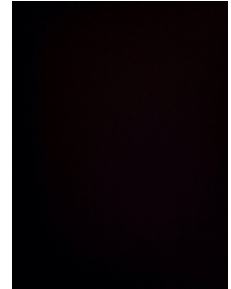
6812 Lindsey Rd.  
Little Rock, AR 72206  
Phone 501-375-9178  
Fax 501-375-4254

## Mechanical Inspection (Continued)

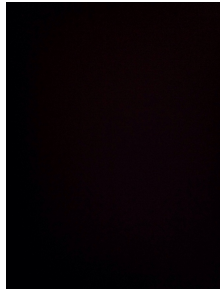
Brg. Image:



Bushings/sleeves image:



Water jacket:     Ok



Fan:     Ok



Frame cond.:     Good



Motor Mount Position:     Horizontal/Foot mount

Endbell type:     Single piece

Missing parts?

- |                                      |                                  |  |
|--------------------------------------|----------------------------------|--|
| <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:

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## 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: 1-12

Length of leads: 10"

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

Size of leads: #10

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: N/A

Connections As Received: 460

Lug Condition: —

Lug size:

Lug Attachment: Replace

Terminal



Lugs



## AC Electrical Inspection (Continued)

Rotor Type: Cast Aluminum

Rotor Condition: Ok

Num rotor bars: 34

Num broken bars: 0

Rotor



### Rotor Test Results

Visual: Pass

Growler: Pass

Single phase: Pass

Stator type: Factory

If other, stator type: Concentric

Stator condition: Ok

If other, stator condition: Ok

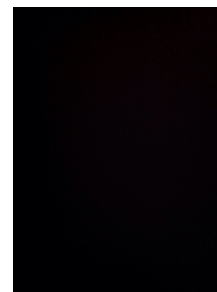
Failure location: Other

If other, stator failure: N/A

Stator Image:



Failure Image:



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## AC Electrical Inspection (Continued)

Winding color: Like new

Winding image

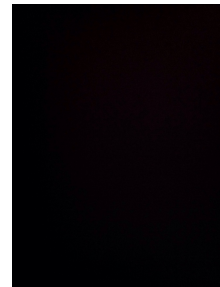
Winding Thermal Protection: No

Winding condition : Solid

Winding Thermal Protection DE: —

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

Leads/jumpers: Ok

Lead jumper Image. :

If other, leads/jumpers:





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## Conclusion

### Component Failure

Bearings

### Cause of Failure

N/A

### Comments

Clean in the bake stator  
Wash parts  
Order new bearings  
Balance rotor  
Renumber leads

Service Tech name: Michael Jordan

Service Tech signature:

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