

## Job Information

Job #: 94840

Date: October 24, 2018

Priority: —

Authorized OT: No

Authorized by:

## Customer Information

Name: Delta Plastics (Little Rock)

Reason:

Contact:

Motor#:

PO#:

Application: —

Special notes:

## Name Plate Information

Manufacturer: Brook Compton

Enclosure : Totally Enclosed  
Fan Cooled

Enclosure Type image

Serial#: INI1444

Model#: WAHN002-4C

Service Factor: 1.15

Frame: EDG145T-T

Horsepower/kW: 2

Rated RPM: 1720

Rated Amps: 5.8/2.9

Rated Voltage: 230/460

Phase: 3

Cycles: 60

Special design: No



Nameplate

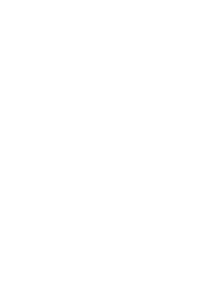
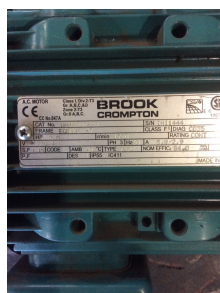
DE

ODE

F1

F2

Top



## Mechanical Inspection

Inspect bolt holes and fasteners. Validate correct fasteners.

Does the shaft turn freely?: No Contaminant(s): None

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

Shaft grounding device present?: No Contaminant Image:



Type of grounding device:

Shaft runout(TIR-Inbound):

Bearings DE: Worn Bearings DE make: NSK

Insulated: No Bearing DE Size: 6205Z/C3

Bearings ODE: Worn Bearings ODE make: SKF

Bearing Type: Ball Bearing ODE Size: 62032Z/C3

Bearings Retainer: Yes Thermal Protection: No

Retainer condition: Good Thermal Protection Type: —

Bearing Type Image



Bearing Make Image



Bearing Retainer Image



Thermal Protection



Not Available



### WEST TENNESSEE

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## 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: 1/4

Grease Cond. DE: Gritty

Grease Amt ODE: 1/4

Grease Cond. ODE: Hard

Seals DE type: Isolators

Seals Image:



Seals DE size: 25\*37\*7

Seals DE (inbound) condition : Worn

Seals ODE type: Isolators

Seals Image 2:



Seals ODE size: 6205Z/C3

Seals ODE (inbound) condition : Worn

Shaft damage cause: None

Shaft Image:



## 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

Endbell Image:



Other missing parts





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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: 9

Terminal Markings:

Length of leads: 9.5"

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

Size of leads:

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: Good

Lug type:

Connections As Received: 1'2'3' line. 4-7 5-8 6-9 joined

Lug Condition: —

Terminal

Lugs

Lug size:

Lug Attachment: —

Not Available

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## AC Electrical Inspection (Continued)

Rotor Type: Cast Aluminum

Rotor Condition: Ok

Num rotor bars: 33

Num broken bars: 0

Rotor



### Rotor Test Results

Visual: Pass

Growler: Pass

Single phase: Pass

Stator type: Factory

If other, stator type:

Stator condition: Ok

If other, stator condition: Good

Failure location: Other

If other, stator failure:

Stator Image:



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## AC Electrical Inspection (Continued)

Winding color: Still has color

Winding image

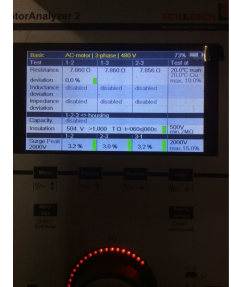
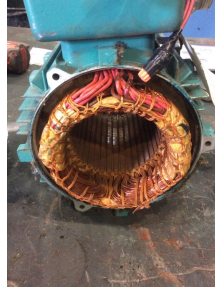
Winding Thermal Protection: No

Winding condition : Solid

Winding Thermal Protection DE: —

Winding Thermal Protection ODE: —

Stator test results: Rewind



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	7.8	7.8	7.8	0.0

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: 6205Z C3

Shaft runout(TIR-Inbound): .001

Bearing ODE Size: 6203 2Z/C3

Retainer condition: Good



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## Mechanical Inspection (Continued)

Seals DE condition : Worn

Brg. Seats DE: Good

Seals DE type: Isolators

If DE undersized, amt.:

Seals DE size: 25\*37\*7

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: 17\*28\*6

Bushings/sleeves DE: Ok

Seals ODE (inbound) condition : Worn

Bushings/sleeves ODE: Ok

Endbell fits/damage: Good

Foot/Flange condition: Ok

Endbell DE size: Bad lip worn

Foot flatness: Pass

Endbell DE insulated?: No

Does Air Gap Meet Customer or EASA spec(<10% variation)?

Endbell ODE size: 1.5750

—

Endbell ODE insulated?: No

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## Conclusion

### Component Failure

Drive end bearing.

### Cause of Failure

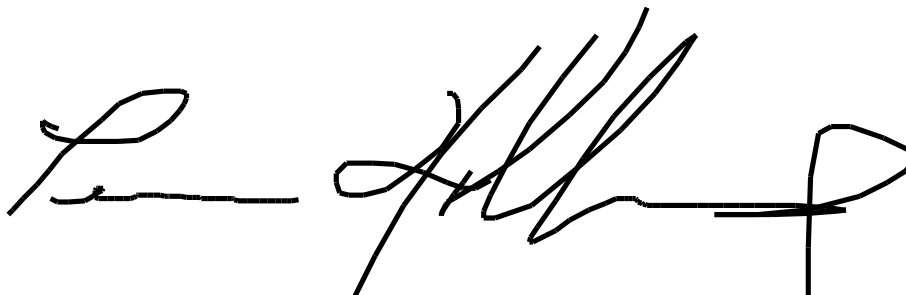
Drive end bearing locked up.

### Comments

D.e. Bearing had signs of brinelling. O.d.e. Bearing had signs of frosting.

Service Tech name: Terrence Holland

Service Tech signature:

A handwritten signature in black ink, appearing to read 'Terrence Holland', written in a cursive style.**WEST TENNESSEE**

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