



MILLINGTON, TN

LITTLE ROCK, AR

## MECHANICAL EVALUATION

**Job Information**

Job #: 140533

Date: September 4,  
2019

Priority: —

Authorized OT: No

Authorized by:

**Customer Information**

Name: Baptist hospital

Reason:

Contact:

Motor#:

PO#:

Application: —

Special notes:

**Name Plate Information**

Manufacturer:

Enclosure : Open Drop Proof  
(ODP)

Horsepower/kW:

Serial#:

Rated Voltage:

Phase:

Rated RPM:

Service Factor:

Special design: No

Cycles:

Rated Amps:

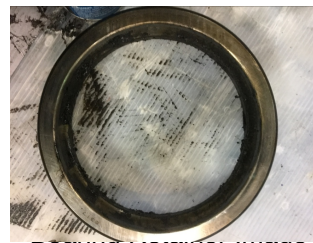
Model#:

Frame:

**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

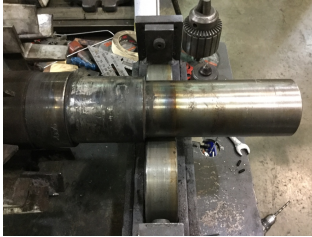
## Mechanical Inspection

|                                  |          |                            |          |
|----------------------------------|----------|----------------------------|----------|
| Shaft grounding device present?: | No       | Shaft runout(TIR-Inbound): | .0015    |
| Bearings Retainer:               | Yes      | Retainer condition:        | Bad      |
| Bearing Type:                    | Ball     | IS BEARING A THRUST BRG:   | No       |
| DE BEARING NAME AND NUMBER:      | NTN 6317 | ODE BEARING NAME AND #:    | NTN 6317 |
| DE BEARING SIZE I.D.:            | 85mm     | ODE BEARING SIZE I.D.:     | 85mm     |
| DE BEARING SIZE O.D.:            | 180mm    | ODE BEARING SIZE O.D.:     | 180mm    |
| Is bearing Insulated:            | No       | Is bearing Insulated:      | No       |
| Thermal Protection:              | Yes      | Thermal Protection Type:   | —        |

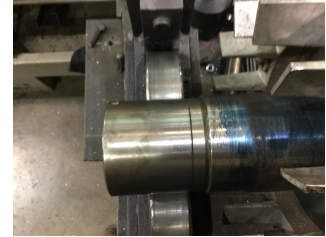


## Mechanical Inspection (Continued)

DE SHAFT  
IMAGE:



ODE SHAFT IMAGE:



Water jacket:     Ok

Fan:     Ok

Frame cond.:     Good



Motor Mount  
Position:     Horizontal/Foot mount

Endbell type:     Single piece

DE Endbell Image:



ODE Endbell Image:





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## MECHANICAL EVALUATION

**Mechanical Inspection (cont)**

Inspect bolt holes and fasteners. Validate correct fasteners.

Shaft Condition: Damaged

DE AND ODE SEAL TYPE: Slinger

DE SHAFT EXT.: 2.874

ODE SHAFT EXT.: N/A

DE SHAFT EXT. KEYWAY: .749

ODE SHAFT EXT. KEYWAY: N/A

DE SHAFT AIR SEAL (inner): 3.735

ODE SHAFT AIR SEAL (inner): 3.537

(Outer): 3.347

(Outer): 3.347

DE SHAFT BRG JOURNAL : 3.345

ODE SHAFT BRG JOURNAL : 3.3473

If journal is undersize,amount: -.0020

If journal is undersize,amount: .000

DE BEARING SEAT: Undersized

ODE BEARING SEAT: Good

Shaft damage cause: None

REPAIR OR REPLACE SHAFT: Repair

ANY OTHER SHAFT DAMAGE NOT  
PREVIOUSLY MENTIONED:

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**Mechanical Inspection (Continued)**

DE Endbell fits/damage: Bad

ODE Endbell fits/damage: Bad

DE END BELL BRG FIT: 7.090

ODE END BELL BRG FIT: 7.0885

DE END BELL AIR SEAL: N/A

ODE END BELL AIR SEAL: N/A

Endbell DE insulated?: No

Endbell ODE insulated?: No

Bushings/sleeves DE: Ok

Bushings/sleeves ODE: Ok

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

Yes

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MECHANICAL EVALUATION

## Conclusion

LIST MACHINE WORK  
REQUIRED :

D.E. BRG RETAINERS INNER AND OUTER

D.E. OIL SLINGER AND SPACER  
WELD CRACK IN T BOX

REPAIR D.E. BRG JOURNAL AND AIR SEAL JOURNAL  
BORE AND SLEEVE BOTH THE D.E. AND O.D.E. ENDBELLS

Service Tech name: BILLY MAYS

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