



MILLINGTON, TN

LITTLE ROCK, AR

MECHANICAL EVALUATION

Job Information

Job #: 140524

Date: September 4,
2019

Priority: —

Authorized OT: No

Authorized by:

Customer Information

Name:

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):

Bearings Retainer: Yes

Retainer condition: —

Bearing Type: Ball

IS BEARING A THRUST BRG: No

DE BEARING NAME
AND NUMBER: NKE 6309

ODE BEARING NAME AND #: NKE 6309

DE BEARING SIZE I.D.: 45mm

ODE BEARING SIZE I.D.: 45mm

DE BEARING SIZE
O.D.: 100mm

ODE BEARING SIZE O.D.: 100mm

Is bearing Insulated: No

Is bearing Insulated: No

Thermal Protection: Yes

Thermal Protection Type: —





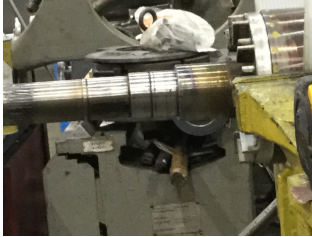
MILLINGTON, TN

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MECHANICAL EVALUATION

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: Worn

DE AND ODE SEAL TYPE: N/A

DE SHAFT EXT.: 1.575

ODE SHAFT EXT.: 1.654

DE SHAFT EXT. KEYWAY: .467

ODE SHAFT EXT. KEYWAY: .467

DE SHAFT AIR SEAL (inner): 2.146

ODE SHAFT AIR SEAL (inner): 2.146

(Outer): 1.765

(Outer): 1.765

DE SHAFT BRG JOURNAL : 1.771

ODE SHAFT BRG JOURNAL : 1.772

If journal is undersize,amount: -.001

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 EVALUATION

Mechanical Inspection (Continued)

DE Endbell fits/damage: Bad

ODE Endbell fits/damage: Bad

DE END BELL BRG FIT: 3.9387

ODE END BELL BRG FIT: 3.940

DE END BELL AIR SEAL: 1.787

ODE END BELL AIR SEAL: 1.787

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 :

O.D.E. SHAFT BEARING JOURNAL IS .001 UNDERSIZED

BORE AND SLEVE O.D.E. AND D.E. BRG HOUSINGS

FACE D.E. ND BELL WHERE THE BRAKE MAKES CONTACT

Service Tech name: B. MAYS

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