



MILLINGTON, TN

LITTLE ROCK, AR

MECHANICAL EVALUATION

Job Information

Job #: 140237

Date: July 23, 2019

Priority: —

Authorized OT: No

Authorized by:

Customer Information

Name: HSLR

Reason:

Contact:

Motor#:

PO#:

Application: —

Special notes:

Name Plate Information

Manufacturer: BALDOR

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):	.002
Bearings Retainer:	Yes	Retainer condition:	Good
Bearing Type:	Ball	IS BEARING A THRUST BRG:	NO
DE BEARING NAME AND NUMBER:	NACHI - 6312	ODE BEARING NAME AND #:	NACHI — 6311
DE BEARING SIZE I.D.:	2.3622	ODE BEARING SIZE I.D.:	2.1654
DE BEARING SIZE O.D.:	5.1181	ODE BEARING SIZE O.D.:	4.7244
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: N/A

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.: 1.235

ODE SHAFT EXT.: 1.998

DE SHAFT EXT. KEYWAY: .245

ODE SHAFT EXT. KEYWAY: .312

DE SHAFT AIR SEAL (inner): 2.873

ODE SHAFT AIR SEAL (inner): 2.719

(Outer): 2.245

(Outer): 2.162

DE SHAFT BRG JOURNAL : 2.3625

ODE SHAFT BRG JOURNAL : 2.1645

If journal is undersize,amount: .000

If journal is undersize,amount: .001

DE BEARING SEAT: Good

ODE BEARING SEAT: Undersized

Shaft damage cause: Keyway bad

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: 5.121

ODE END BELL BRG FIT: 4.727

DE END BELL AIR SEAL: 2.406

ODE END BELL AIR SEAL: 2.177

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 :

*** DE SHAFT EXT. AND KEYWAY NEED REPAIRING DUE TO SEVERE
RUST AND PITTING***

DE ENDBELL NEEDS BORING AND SLEEVED

ODE EENDBELL NEEDS BORIED AND SLEEVED

*** ORDER BRG SLEEVE FOR 6311 AND 6312 BRG

Service Tech name: BILLY MAYS

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