



MILLINGTON, TN

LITTLE ROCK, AR

MECHANICAL EVALUATION

Job Information

Job #: 140490

Date: August 30, 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):	.0005
Bearings Retainer:	Yes	Retainer condition:	Good
Bearing Type:	Ball	IS BEARING A THRUST BRG:	No
DE BEARING NAME AND NUMBER:	PEER 6312	ODE BEARING NAME AND #:	SKF 6311
DE BEARING SIZE I.D.:	60mm	ODE BEARING SIZE I.D.:	55mm
DE BEARING SIZE O.D.:	130mm	ODE BEARING SIZE O.D.:	120mm
Is bearing Insulated:	No	Is bearing Insulated:	No
Thermal Protection:	Yes	Thermal Protection Type:	—





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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: Good

DE AND ODE SEAL TYPE: —

DE SHAFT EXT.: 2.124

ODE SHAFT EXT.: 2.000

DE SHAFT EXT. KEYWAY: .499

ODE SHAFT EXT. KEYWAY: .3115

DE SHAFT AIR SEAL (inner): 2.874

ODE SHAFT AIR SEAL (inner): 2.720

(Outer): 2.247

(Outer): 2.165

DE SHAFT BRG JOURNAL : 2.362

ODE SHAFT BRG JOURNAL : 2.1658

If journal is undersize,amount: -.0006

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: Good

ODE Endbell fits/damage: Good

DE END BELL BRG FIT: 5.120

ODE END BELL BRG FIT: 4.7263

DE END BELL AIR SEAL: 2.265

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 :

D.E. SHAFT BRG JOURNAL IS .0006 UNDER TOLERANCE

D.E. BRG HOUSING IS .0009 OVER HIGH LIMIT

O.D.E. BRG HOUSING IS .001 OVER HIGH LIMIT

Service Tech name: BILLY MAYS

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