

#### **Job Information**

Job #: 94532 Date: July 31, 2018

Priority: — Authorized OT: No Authorized by:

#### **Customer Information**

Name: Plastic Ingenuity Reason:

Contact: Motor#: PO#:

Application: – Special notes:

#### **Name Plate Information**

Manufacturer: Reliance Enclosure: Open Drop Proof Enclosure Type image

(ODP)
Serial#: Model#:

Service Factor: Frame: HC2113ATZ

Horsepower/kW: 25 Rated RPM: 1750/2300

Volts 500 Volts 300

Amps 46 Amps 1.36

Nameplate DE ODE F1 F2 Top

**Fields** 











Fax 901-873-5301

Armature



## **Mechanical Inspection**

Inspect bolt holes and fasteners. Validate correct fasteners.

Does the shaft turn freely?: Yes Contaminant(s): None

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

**Shaft Condition:** Contaminant Image: Good

Shaft grounding device

No

present?:

Type of grounding device:

Available

Shaft runout(TIR-Inbound):

Bearing Type Image



Bearing Make Image



Bearing Retainer Image



Thermal Protection

Not

Not Available

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:

Full

Grease Cond. DE: New

Grease Amt ODE:

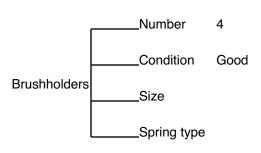
Full

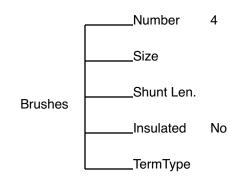
Grease Cond. ODE:

New



## **Mechanical Inspection (Continued)**





Brg Image



Shaft Image



Brushing/sleeves



End bell



Water jacket: N/A Fan: N/A Frame cond.: Good

Not Available Not Available



Motor Mount Position: Horizontal/Foot mount

Foot/Flange condition: Ok Foot flatness: Pass



# **Mechanical Inspection (Continued)**

Missing	parts?						
☐ J-Box	cover	O-rings	☐ J-Box	HH cover	Glands	s None	
Other mis	sing parts						
Air Gap Meaurements (N/A on Single Piece Endbell)					Does Air Gap I spec(<10% va	Meet Customer or EASA riation)?	
D	E @ 0		ODE @ 0		-		
D	E @ 90		ODE @ 90	)			
D	DE @ 180			80			
DE @ 270			ODE @ 27	ODE @ 270			
Electrical Inspection							
☐ Move ar	☐ Move armature imbalance to Assemble		e	Commutator:	_		
Winding In	nspectio	n					
Meg Test IP to Flds: Good			Pola	Polarity Check IP to Flds: —			
Meg Series to	Shunt:	Good					



## **DC Electrical Inspection**

Brushes: Worn to rivets

Brush Image:

Brush holders:

Salvageable

Qty.

Insulators:

Salvageable

Qty.

Lead support stud:

Salvageable

Qty.

Alternate brush image:

Rocker ring:

Salvageable

Qty.



Commutator Type:

Tig welded

Commutator images

Commutator Hardness:

Good

Commutator Condition:

Burned between bars

Commutator Film:

Not Available

Armature type:

Factory

If other

Armature images

Failure mode:

Ok

Ok

If other

Failure location:

Front V ring

If other

Armature condition:

Solid

If other

Winding color:

Painted

WEST TENNESSEE

7030 Ryburn Drive Millington, TN 38053 Phone 901-873-5300 Fax 901-873-5301 CENTRAL ARKANSAS 6812 Lindsey Rd.

6812 Lindsey Rd. Little Rock, AR 72206 Phone 501-375-9178 Fax 501-375-4254 ISAS



## **DC Electrical Inspection (Continued)**

Armature image

**Armature Test Results** 

Megs: Good Hi-pot: Good Core loss: Good



Fields condition

Fields condition image: Series/Stab condition: Ok

Shunts condition: Ok

InterCoils condition: Ok



Fields test results

Series/Stab Meg: Ok Hi Pot: Ok Resistance: Ok

Meg: Ok Shunts Hi Pot: Ok Resistance: Ok

InterCoils Hi Pot: Ok Resistance: Meg: Ok Ok

Thermistors: Field Test image None

RTD: Αt In use

Not **Available** Thermostat: Closed

CENTRAL ARKANSAS



Leads/jumpers: Ok Lead jumper Image:

Not Available

#### Conclusion

**Component Failure** 

Brushes worn excessively, brushes sticking in brush orders

**Cause of Failure** 

**Comments** 

Service Tech name: Lynn McDonald

> Service Tech signature:

WEST TENNESSEE CENTRAL ARKANSAS

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