

## **Job Information**

Job #:	96866				Date:	May 18, 2020
Priority:	_	Authorized OT:	No	Authorized by:		

## **Customer Information**

Name:	Future Fuel		Reason:	
Contact:		Motor#:		PO#:
Application:	_	Special notes:		

## **Name Plate Information**

Manufacturer:	TECO	Enclosure :	Explosion-proof enclosures (EXPL/
Serial#:	KJ0895020001	Model#:	
Service Factor:	1.15	Frame:	284TC
Horsepower/kW:	25	Rated RPM:	1760
Rated Amps:	60/30	Rated Voltage:	230/460
Phase:	3	Cycles:	60
Special design:	No		

### Enclosure Type image



Nameplate

DE

ODE

F1

F2

Тор







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## **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 grounding device present?:	No		
Type of grounding device:			

Shaft runout(TIR-Inbound):

Bearings DE:	Worn	Bearings DE make:	NTN
Insulated:	No	Bearing DE Size:	6311
Bearings ODE:	Worn	Bearings ODE make:	NTN
Bearing Type:	Ball	Bearing ODE Size:	6310
Bearings Retainer:	Yes	Thermal Protection:	No
Retainer condition:	Good	Thermal Protection Type:	_

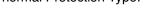
#### Bearing Type Image



Bearing Make Image



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**Bearing Retainer Image** 



Thermal Protection



# **Mechanical Inspection (Continued)**

Lubrication Type:	Grease	Thermal Protection device DE:	_
Lubrication brand inbound:	Unknown	Thermal Protection device ODE:	_
Lubrication brand outbound:	Unknown		
Grease Amt DE:	Full	Grease Cond. DE:	Other
Grease Amt ODE:	Full	Grease Cond. ODE:	Other
Seals DE type:	N/A		
Seals DE size:			
Seals DE (inbound) condition :			
Seals ODE type:	N/A		
Seals ODE size:			
Seals ODE (inbound) condition :			
Shaft damage cause:	None	Shaft Image:	



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# **Mechanical Inspection (Continued)**

Brg. Image:



	Water	jacket:	N/A
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Fan: Ok



Frame cond.: Good



Motor Mount Positior	n: Horizontal/F	Foot mount		Endbell type:	Single piece
Missing parts?			Endbell Image:	AND A	
J-Box cover	O-rings	J-Box			
HH cover	Glands	Vone		ALL AND AND A	111
Other missing parts					

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# **Mechanical Inspection (Continued)**

Air Gap Meaurements (N/A on Single Pie	Does Air Gap Meet Customer or EASA spec(<10% variation)?	
DE @ 0	ODE @ 0	_
DE @ 90	ODE @ 90	
DE @ 180	ODE @ 180	
DE @ 270	ODE @ 270	

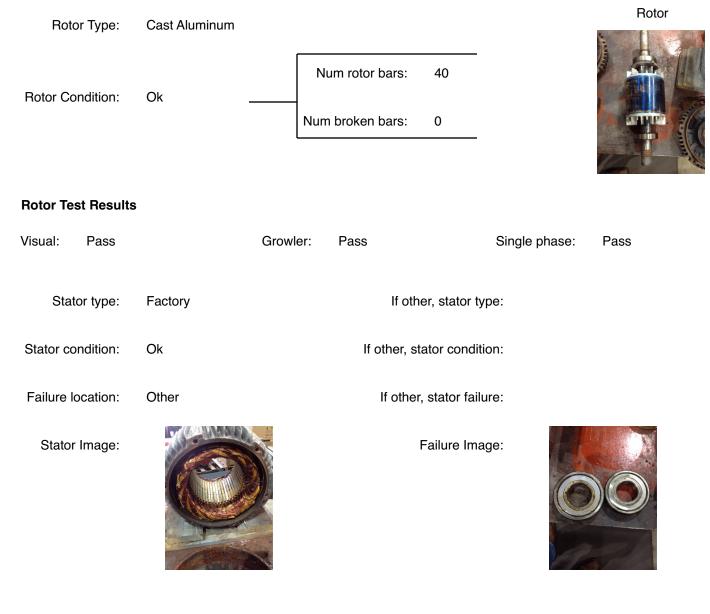
## **AC Electrical Inspection**

Number of leads:	9	Terminal Markings:		
Length of leads:	6in	REF: NEMA Sto Markings Identif	ds. MG 1-2009, Rev. 1- fied By Color:	2010, 2.41-Terminal
Size of leads:		1-Blue 2-White 3-Orange	5-Black 6-No color assigned 7-No color assigned	P1-No color assigned P2-Brown
Lead condition:	Good	4-Yellow	8-Red	
Lug type:		Connections As Re	eceived:	
Lug Condition:	_		Terminal	Lugs
Lug size:				
Lug Attachment:	_			

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## **AC Electrical Inspection (Continued)**



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## **AC Electrical Inspection (Continued)**

Winding color:	Like new	Winding	g image	Winding The	rmal Protection	i: No
Winding condition :	Solid					
Winding Thermal Protection DE:	_					
Winding Thermal Protection ODE:	_					
Stator test results:	Salvageable					
Megs incoming: Ge	bod	Surge incoming:	Good	Hi-po	ot incoming:	Good
Winding Resistance In	coming					
Phas	es A to B	Phases B to C	Phase	es C to A	Resistive	imbalance
Incoming 0.00	I	0.00	0.00			
Leads/jump	ers: Ok		Lea	d jumper Imag	le. :	
If other, leads/jump	ers:					
Mechanical Ins	pection					T
Inspect bolt holes and fa	asteners. Valida	te correct fasteners.				
Shaft Con	dition: Good		Bearing	s Retainer:	Yes	
Type of grounding d	evice:		Bearir	ng DE Size:	6311	

Bearing ODE Size:

6310

Shaft runout(TIR-Inbound):

Retainer condition:

Good

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# **Mechanical Inspection (Continued)**

Seals DE condition :	Worn	Brg. Seats DE:	Good
Seals DE type:	N/A	If DE undersized, amt.:	
Seals DE size:		Brg. Seats ODE:	Good
Seals DE (inbound) condition :		If ODE undersized, amt.:	
Seals ODE condition :	Worn	Shaft damage:	ОК
Seals ODE type:	N/A		
Seals ODE size:		Bushings/sleeves DE:	Ok
Seals ODE (inbound) condition :		Bushings/sleeves ODE:	Ok
Endbell fits/damage:	Good	Foot/Flange condition:	Ok
Endbell DE size:	4.7256	Foot flatness:	Pass
Endbell DE insulated?:	_		stomer or EASA spec(<10%
Endbell ODE size:	4.3316	variation)?	
Endbell ODE insulated?:	—		



## Conclusion

**Component Failure** 

**Cause of Failure** 

#### Comments

Bearings show normal signs of wear and the fan cover bolts are broke. Recommend reconditioning, new bearings, and new bolts.

Service Tech name: Chris Wiley

Service Tech signature:

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