

Job Information

Job #:	96279				Date:	December 2, 2019
Priority:	_	Authorized OT:	No	Authorized by:		

Customer Information

Name:	Calfrac		Reason:	
Contact:		Motor#:		PO#:
Application:	_	Special notes:		

Name Plate Information

Manufacturer:	Fscurtis	Enclosure :	Totally Enclosed Fan Cooled
Serial#:	13113668	Model#:	Jm3-180I-2
Service Factor:	1.2	Frame:	
Horsepower/kW:	30	Rated RPM:	3600
Rated Amps:	66.9/33.5	Rated Voltage:	230/460
Phase:	3	Cycles:	60
Special design:	No		

Enclosure Type image



Nameplate

DE

ODE

F1

F2















WEST TENNESSEE 7030 Ryburn Drive Millington, TN 38053 Phone 901-873-5300 Fax 901-873-5301



Mechanical Inspection

Inspect bolt holes and fasteners. Validate correct fasteners.

Does the shaft turn freely?:	No	Contaminant(s):	Other
Shaft rotation:	Bi-directional	Contaminant(s) Amt:	Other
Shaft grounding device present?:	No	Contaminant Image:	
Type of grounding device:			
Shaft runout(TIR-Inbound):	.001		
Bearings DE:	Worn	Bearings DE make:	Other

Bearings DE:	worn	Bearings DE make:	Other
Insulated:	No	Bearing DE Size:	6311z
Bearings ODE:	Worn	Bearings ODE make:	Other
Bearing Type:	Ball	Bearing ODE Size:	6311z
Bearings Retainer:	Yes	Thermal Protection:	Yes
Retainer condition:	Good	Thermal Protection Type:	Thermocouple

Bearing Type Image



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

Bearing Retainer Image



Thermal Protection

4





Mechanical Inspection (Continued)

Lubrication Type:	Grease	Thermal Protection device DE:	Good
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:	0	Grease Cond. ODE:	Charred
Seals DE type:	Slinger	Seals Image:	
Seals DE size:	Va55		
Seals DE (inbound) condition :	Bad		
Seals ODE type:	Slinger		
Seals ODE size:	Va55		
Seals ODE (inbound) condition :	Bad		
Shaft damage cause:	None	Shaft Image:	



VEST TENNESSE 7030 Ryburn Drive Millington, TN 38053 Phone 901-873-5300 Fax 901-873-5301



Mechanical Inspection (Continued)

Brg. Image:



Water	jacket:	N/A

Fan:



Ok

Frame cond.: Good



Motor Mount Position:	Horizontal/F	Foot mount	
Missing parts?			Endbell Image:
J-Box cover	O-rings	J-Box	



Glands None

Endbell type:

Single piece





Other missing parts

WEST TENNESSEE 7030 Ryburn Drive Millington, TN 38053 Phone 901-873-5300 Fax 901-873-5301



Mechanical Inspection (Continued)

Air Gap Meaurements (N/A on Single Piece Endbell)			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	

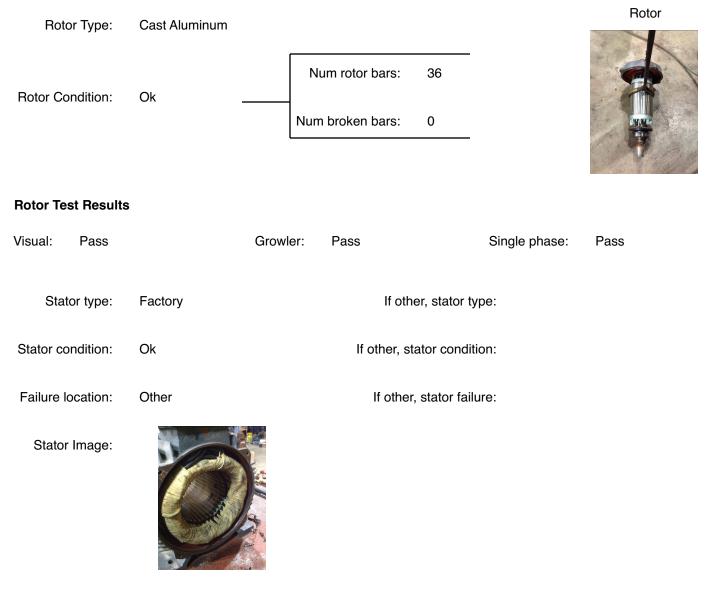
AC Electrical Inspection

Number of leads:	12	Terminal Markings:		
Length of leads:	8"	REF: NEMA Stds Markings Identifi	s. MG 1-2009, Rev. 1- ed By Color:	2010, 2.41-Terminal
Size of leads:	10	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:	Copper	Connections As Red	ceived: 2 delta	
Lug Condition:	Good	1	Ferminal	Lugs
Lug size:	10			
Lug Attachment:	_			

WEST TENNESSE 7030 Ryburn Drive Millington, TN 38053 Phone 901-873-5300 Fax 901-873-5301



AC Electrical Inspection (Continued)



WEST TENNESSEE 7030 Ryburn Drive Millington, TN 38053 Phone 901-873-5300 Fax 901-873-5301



AC Electrical Inspection (Continued)

Winding color:	Like new	Winding	g image	Winding Therma	I Protection:	Yes
Winding condition :	Solid					
Winding Thermal Protection DE:	Good					
Winding Thermal Protection ODE:	_					
Stator test results:	Salvageable					
Megs incoming: Go	ood	Surge incoming:	Good	Hi-pot in	coming: Go	bod
Winding Resistance In	coming					
Phase	es A to B	Phases B to C	Phase	es C to A	Resistive imb	alance
Incoming						
Leads/jump	ers: Ok		Lead	d jumper Image. :		
If other, leads/jumpe	ers:					
Mechanical Ins						

Inspect bolt holes and fasteners. Validate correct fasteners.

Shaft Condition:	Good	Bearings Retainer:	Yes
Type of grounding device:		Bearing DE Size:	6311zc3
Shaft runout(TIR-Inbound):	Good	Bearing ODE Size:	6311zc3
Retainer condition:	Good		

 WEST TENNESSEE
 CENTRAL ARKANSAS

 7030 Ryburn Drive
 6812 Lindsey Rd.

 Millington, TN 38053
 Little Rock, AR 72206

 Phone 901-873-5300
 Phone 501-375-9178

 Fax 901-873-5301
 Fax 501-375-4254



Mechanical Inspection (Continued)

Seals DE condition :	Worn	Brg. Seats DE:	Good	
Seals DE type:	Slinger	If DE undersized, amt.:		
Seals DE size:	Va55	Brg. Seats ODE:	Good	
Seals DE (inbound) condition :	Bad	If ODE undersized, amt.:		
Seals ODE condition :	Worn	Shaft damage:	ОК	
Seals ODE type:	Slinger			
Seals ODE size:	Va55	Bushings/sleeves DE:	Ok	
Seals ODE (inbound) condition :	Bad	Bushings/sleeves ODE:	Ok	
Endbell fits/damage:	Bad	Foot/Flange condition:	Ok	
Endbell DE size:	4.7252	Foot flatness:	Pass	
Endbell DE insulated?:	No		Does Air Gap Meet Customer or EASA spec(<10% variation)?	
Endbell ODE size:	4.7262	variation)?		
Endbell ODE insulated?:	No			

VEST TENNESSEE 7030 Ryburn Drive Millington, TN 38053 Phone 901-873-5300 Fax 901-873-5301



Conclusion

Component Failure

Bearings and opposite drive endbell

Cause of Failure

Lack of grease

Comments

Customer requests stator be rewound

Service Tech name: Trevor Hall

Service Tech signature:



WEST TENNESSEE 7030 Ryburn Drive Millington, TN 38053 Phone 901-873-5300 Fax 901-873-5301