

Job Information

Job #:	95526				Date:	May 1, 2019
Priority:	_	Authorized OT:	No	Authorized by:		

Customer Information

Name:	Name: Molex Inc.		Reason:	
Contact:		Motor#:		PO#:
Application:	_	Special notes:		

Name Plate Information

Manufacturer:	Ametek	Enclosure :	Totally Enclosed Fan Cooled
Serial#:	0625074	Model#:	511306
Service Factor:	1.15	Frame:	14315TCZ
Horsepower/kW:	3	Rated RPM:	3480
Rated Amps:	9.0/4.5	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?:	No	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:	SKF	
Insulated:	No	Bearing DE Size:	6205	
Bearings ODE:	Worn	Bearings ODE make:	SKF	
Bearing Type:	Ball	Bearing ODE Size:	6203	
Bearings Retainer:	Yes	Thermal Protection:	No	
Retainer condition:	Bad	Thermal Protection Type:	_	
Bearing Type Image	Bearing Make Image	Bearing Retainer Image		Thermal Protection

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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:	0	Grease Cond. DE:	Other
Grease Amt ODE:	0	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:	Other		

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Mechanical Inspection (Continued)

Water jacket: N/A Fan: Broken Frame cond.: Good Motor Mount Position: Horizontal/Foot mount Endbell type: Single piece Missing parts? Endbell Image: J-Box cover O-rings J-Box HH cover Glands None 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	

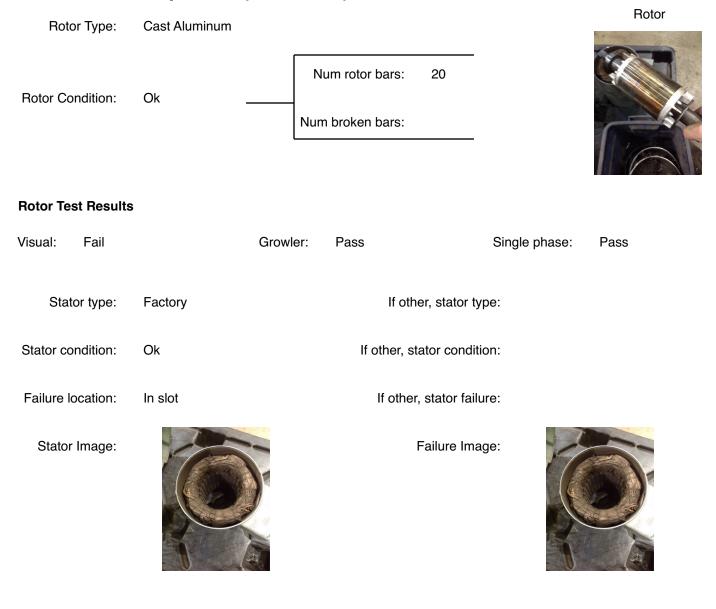
AC Electrical Inspection

Number of leads:	9	Terminal Markings:		
Length of leads:	4 in	REF: NEMA Sto Markings Identi	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:	_	4-Yellow	8-Red	
Lug type:		Connections As R	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:	Dull black	Winding	image	Winding Therma	al Protection	: No
Winding condition :	Charred	1				
Winding Thermal Protection DE:	_					
Winding Thermal Protection ODE:	_					
Stator test results:	Rewind					
Megs incoming: Ba	ad	Surge incoming:	Bad	Hi-pot ir	ncoming:	Bad
Winding Resistance Ir	coming					
Phas	es A to B	Phases B to C	Phase	s C to A	Resistive i	mbalance
Incoming 0.00)	0.00	0.00			
Leads/jump	ers: Cut off					
If other, leads/jump	ers:					

Mechanical Inspection

Inspect bolt holes and fasteners. Validate correct fasteners.

Shaft Condition:	Worn	Bearings Retainer:	Yes
Type of grounding device:		Bearing DE Size:	6205
Shaft runout(TIR-Inbound):	0.06	Bearing ODE Size:	6203

Retainer condition: Bad

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Mechanical Inspection (Continued)

Seals DE condition :	None	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 :	None	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:	Bad	Foot/Flange condition:	Ok
Endbell DE size:	2.0482	Foot flatness:	Pass
Endbell DE insulated?:	_		stomer or EASA spec(<10%
Endbell ODE size:	1.5755	variation)?	
Endbell ODE insulated?:	_		

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Conclusion

Component Failure

Cause of Failure

Comments

Both end caps oversized, coils burned up, bearings are shot, rotor shaft worn, motor is a rewind. Recommend putting new motor on existing blower.

Service Tech name: Chris Wiley

Service Tech signature:

Chris Childry

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