

Job Information

Job #:	138459			Date:	November 5, 2018	
Priority:	_	Authorized OT:	No	Authorized by:		

Customer Information

Name:	Hershey foods		Reason:	Motor inspection	
Contact:	Neil Adams	Motor#:		PO#:	
Application:	Direct Drive	Special notes:			

Name Plate Information

Manufacturer:	Bald or	Enclosure :	Totally Enclosed Fan Cooled	Enclosure Type image
Serial#:	C1410150787	Model#:	EM104T	5
Service Factor:	1.15	Frame:	286T	
Horsepower/kW:	30	Rated RPM:	1780	
Rated Amps:	78/76/38	Rated Voltage:	208/230/460	CONCOR
Phase:	3	Cycles:		
Special design:	No			

Nameplate

DE

ODE

F1

F2





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Mechanical Inspection

Inspect bolt holes and fasteners. Validate correct fasteners.

Does the shaft turn freely?:	Yes	Contaminant(s):	Grease
Shaft rotation:	Bi-directional	Contaminant(s) Amt:	Cup
Shaft grounding device present?:	No	Contaminant Image:	and a
Type of grounding device:			
Shaft runout(TIR-Inbound):	.001		
Bearings DE:	Worn	Bearings DE make:	SKF
Insulated:	No	Bearing DE Size:	
Bearings ODE:	Worn	Bearings ODE make:	SKF
Bearing Type:	Ball	Bearing ODE Size:	
Bearings Retainer:	Yes	Thermal Protection:	No
Retainer condition:	Good	Thermal Protection Type:	_

Bearing Type Image



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Bearing Retainer Image



Thermal Protection





Mechanical Inspection (Continued)

Lubrication Type:	Grease	Thermal Protection device DE:	N/A
Lubrication brand inbound:	Mobile Polyrex EM	Thermal Protection device ODE:	N/A
Lubrication brand outbound:	Mobile Polyrex EM		
Grease Amt DE:	Full	Grease Cond. DE:	Hard
Grease Amt ODE:	Full	Grease Cond. ODE:	Hard
Seals DE type:	N/A	Seals Image:	
Seals DE size:			
Seals DE (inbound) condition :			
Seals ODE type:	Slinger	Seals Image 2:	
Seals ODE size:			
Seals ODE (inbound) condition :			
Shaft damage cause:	Other	Shaft Image:	3 -



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Mechanical Inspection (Continued)

Brg. Image:



Bushings/sleeves image:





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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:	9	Terminal Markings	5:	
Length of leads:	12 inches	REF: NEMA S Markings Iden	tds. MG 1-2009, Rev. 1- tified By Color:	2010, 2.41-Terminal
Size of leads:	6 wag	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:	None	Connections As F	Received:	
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 in	nage Windir	ng Thermal Protection:	Yes
Winding condition :	Solid	A CONTRACTOR			
Winding Thermal Protection DE:	_				
Winding Thermal Protection ODE:	_				
Stator test results:	Rewind				
Megs incoming: Bad		Surge incoming: B	ad	Hi-pot incoming:	Bad
Winding Resistance In	coming				
Phase	es A to B	Phases B to C	Phases C to /	A Resistive in	mbalance
Incoming					
Leads/jumpe	ers: Ok		Lead jumper Im	age. :	2
If other, leads/jumpe	ers:				

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Conclusion

Component Failure

Shaft

Cause of Failure

Windings blown in slot

Comments

#2 end journal went bad causing iron to iron drag which caused windings to blow in between the slot.

Service Tech name:

Dan Mahan

Service Tech signature:

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