Hi-Speed Industrial Service
7030 Ryburn Dr
Millington, Tn 38053
901-873-5300

AC Recondition Repair Report

FolderID: 97807
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Hiland Dairy (10126)
6901 I-30
Little Rock, AR 72209

Priorities Found: **1 - High** **12 - Good**

General

1.	Job Number	**97807**
2.	Report Date	
3.	Customer	**HILAND DAIRY**

Name Plate Information

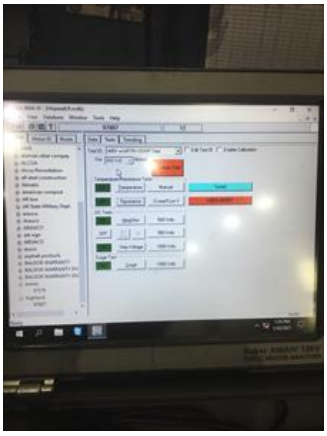
4.	Manufacturer	**THERMO KING**	P5

5.	Model	
6.	Serial Number	**182778WJ 004**
7.	Horsepower	**7.20**
8.	KW	
9.	Volts	**Volts**
10.	Amps	
11.	RPM	**1765**
12.	Frame	**184TT**
13.	Enclosure	**TE**
14.	Cycles	**60**
15.	Phase	**3 PH**

	16.	Service Factor		
	17.	Motor Mount Position		
Initial Inspection				
	18.	Number of Leads	**9**	P13

	19.	Lead Length	**6 Inches**	
	20.	Lead Size		
●	21.	Lead Condition	**(P) Pass**	
	22.	Lead Markings		
	23.	Lug Size, Condition, and Type		
	24.	Winding RTD's		
	25.	Winding Rtd's Condition		
	26.	Shaft Run Out		
	27.	Does Shaft Turn Freely	**yes**	
	28.	Does Shaft Have Visible Damage	**no**	
	29.	Bearing Rtd's		
	30.	Bearing Rtd's Condition		
	31.	Contamination		
●	32.	Frame Condition	**(P) Pass**	
	33.	Fan Condition	**(NA) Not Applicable**	
	34.	Broken or missing components		
Initial Electric Test				
	35.	Resistance to Ground	**Mohm**	
	36.	Winding Resistance 1-2		
	37.	Winding Resistance 2-3		
	38.	Winding Resistance 1-3		
	39.	Resistive Imbalance		
	40.	Hi-Pot		

41.	Surge Test	**(P) Pass**	P58



42.	Stator Condition	**good**	P65

43.	Failure Location	
Initial Rotor Inspection		
44.	Rotor Type	
45.	Air Gap <10% Variation	
46.	Number of Rotor Bars	
47.	Number of Broken Rotor Bars	**0**
48.	Growler Test	**(P) Pass**
49.	Rotor Condition	**(P) Pass**
Mechanical Inspection		
50.	Bearing Manufacture	
51.	Bearing DE Size	**6206**
52.	Bearing DE Type	**regular ball bearing**
53.	DE Bearing Qty.	**1**
54.	Bearing ODE Size	**6206**

	55.	Bearing ODE Type	**regular ball bearing** P53

	56.	ODE Bearing Qty.	**1**
	57.	Insulated Bearing	**no**
	58.	Lubrication Type	**grease**
●	59.	Grease Condition	**(F) Fail**
	60.	Bearing Retainers	**(NA) Not Applicable**
	61.	Shaft Grounding Device	
	62.	DE Seal	
	63.	DE Seal Type/Size	
	64.	ODE Seal	
	65.	ODE Seal Type/Size	

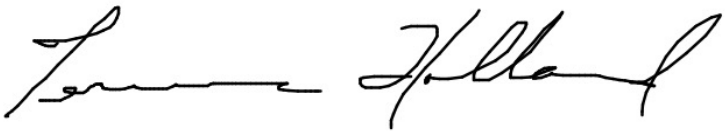
Root Cause of Failure

	66.	Component Failure	**bearings/leads**
	67.	Cause of Failure ***Bearings/poor lead connection***	
	68.	Comments ***Both sealed bearings were worn from hardened grease.***	
	69.	Service Technician	

Machine Fit Inspection Report

●	70.	Shaft Run Out	**(P) Pass**
	71.	Initial Shaft Run Out	**0.002 "**
	72.	Final Shaft Run Out	
●	73.	DE Bearing Shaft Fit	**(P) Pass**
	74.	DE Initial Shaft Bearing Fit Size 1	**1.1812 "**
	75.	DE Initial Shaft Bearing Fit Size 2	**1.1812 "**
	76.	DE Initial Shaft Bearing Fit Size 3	**1.1812 "**
	77.	DE Finial Shaft Bearing Fit Size 1	
	78.	DE Finial Shaft Bearing Fit Size 2	
	79.	DE Finial Shaft Bearing Fit Size 3	
●	80.	ODE Bearing Shaft Fit	**(P) Pass**
	81.	ODE Initial Shaft Bearing Fit Size 1	**1.1812 "**
	82.	ODE Initial Shaft Bearing Fit Size 2	**1.1812 "**
	83.	ODE Initial Shaft Bearing Fit Size 3	**1.1812 "**
	84.	ODE Finial Shaft Bearing Fit Size 1	
	85.	ODE Finial Shaft Bearing Fit Size 2	
	86.	ODE Finial Shaft Bearing Fit Size 3	

	87.	DE Air Seal Shaft Fit	
	88.	DE Initial Air Seal Shaft Size	
	89.	DE Final Air Seal Shaft Size	
	90.	ODE Air Seal Shaft Fit	
	91.	ODE Initial Air Seal Shaft Size	
	92.	ODE Final Air Seal Shaft Size	
●	93.	DE Endbell Fit	**(P) Pass**
	94.	DE Initial Endbell Fit Size 1	**2.4416 "**
	95.	DE Initial Endbell Fit Size 2	**2.4416 "**
	96.	DE Initial Endbell Fit Size 3	**2.4416 "**
	97.	DE Final Endbell Fit Size 1	
	98.	DE Finial Endbell Fit Size 2	
	99.	DE Final Endbell Fit Size 3	
	100.	DE Endbell Fit Insulated	
	101.	DE Endbell Air Seal Fit	
	102.	Initial Endbell Air Seal Fit Size	
	103.	Finial Endbell Air Seal Fit Size	
●	104.	ODE Endbell Fit	**(P) Pass**
	105.	ODE Initial Endbell Fit Size 1	**2.4412 "**
	106.	ODE Initial Endbell Fit Size 2	**2.1414 "**
	107.	ODE Initial Endbell Fit Size 3	**2.4413 "**
	108.	ODE Final Endbell Fit Size 1	
	109.	ODE Final Endbell Fit Size 2	
	110.	ODE Final Endbell Fit Size 3	
	111.	ODE Endbell Fit Insulated	
	112.	ODE Endbell Air Seal Fit	
	113.	ODE Initial Endbell Seal Fit Size	
	114.	ODE Finial Endbell Seal Fit Size	
●	115.	Foot Flatness	**(P) Pass**
●	116.	Foot Condition	**(P) Pass**
	117.	Flange Condition	**(NA) Not Applicable**
	118.	Service Technician	**Terrence Holland**



Balancing Report

	119.	Balance Type	
	120.	Balance Operating Speed	
	121.	Start Left End	
	122.	Start Right End	
	123.	Balancing Specification	
	124.	Finish Left End	
	125.	Finish Right End	
	126.	Service Technician	

Assembly and Final Test

	127.	Meggar Testing Reading	

128.	Surge Test		
129.	Hi-Pot		
130.	Winding Resistance 1-2		
131.	Winding Resistance 2-3		
132.	Winding Resistance 1-3		
133.	Test Run Voltage Phase A		
134.	Test Run Amps A		
135.	Test Run Voltage Phase B		
136.	Test Run Amps B		
137.	Test Run Voltage Phase C		
138.	Test Run Amps C		
139.	DE Horizontal Vibration Reading		
140.	DE Vertical Vibration Reading		
141.	DE Axial Vibration Reading		
142.	ODE Horizontal Vibration Reading		
143.	ODE Vertical Vibration Reading		
144.	ODE Axial Vibration Reading		
145.	Ambient Temp at start of Test Run		
146.	Temp at 5 minutes		
147.	Temp at 10 minutes		
148.	Temp at 15 minutes		
149.	Temp at 20 minutes		
150.	Temp at 25 minutes		
151.	Temp at 30 minutes		
152.	Temp at 35 minutes		
153.	Temp at 40 minutes		
154.	Temp at 45 minutes		
155.	Temp at 50 minutes		
156.	Temp at 55 minutes		
157.	Temp at 60 minutes		
158.	Motor Paint	**(NA) Not Applicable**	P136

159. Service Technician