

Location:	MOTOR SHOP LR	
Serial Number:	90934948	
-		

Description:125HP TOSHIBA 1800RPM 444T

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

FolderID: 100224 FormID: 14419410

Hi-Speed Job Number:	100224
Manufacturer:	Toshiba
Product Number:	B1254FLF4U3
Serial Number:	90934948
HP/kW:	125 (HP)
RPM:	1770 (RPM)
Frame:	444T
Voltage:	230 / 460
Current:	300/150
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.15
Enclosure:	TEFC
J-box Included:	Complete
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Teardown Inspection
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: 🛑 3 - High

🔵 3 - Good

Overall Condition

- 1. Report Date
- 2. Nameplate Picture





Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.

P21

Ο



















































Printed on 8/29/2022

	40	Leedler w	~· ·	
	12.	Lead Length	9 Inches	
	13.	Frame Condition	pass	
	14.	Fan Condition	(P) Pass	
	15.	Broken or Missing Components	end cap mount bolts	
In		Electrical Inspection		
	16.	Insulation Resistance/Megger Grounded	Megohms	
	17.	Winding Resistance		
		1-2	1-3 2-3	
	18.	Perform Surge Test	(NA) Not Applicable	
	19.	Stator Condition	rewind stator	
M	echa	nical Inspection		O
	20.		SKF 3nu18EC	P8
	21.	Drive End Bearing Qty.	1	
	22.	Drive End Bearing Type	(Roller) Roller Bearing	
	23.	Drive End Lubrication Type	(Grease) Grease Lubricated	
	24.	Drive End Bearing Insulation or G		
	25. 26.	Drive End Wavy Washer/Snap-Ri Drive End Bearing Condition	ing Other Retention Device? destroyed	P43

27. Opposite Drive End Bearing Number-



27.	Opposite Drive End Bearing Number-	Fag 6318	P47
28.	Opposite Drive End Bearing Qty.	1	
29.	Opposite Drive End Bearing Type	(Ball) Ball Bearing	
30.	Opposite Drive End Lubrication Type	(Grease) Grease Lubricated	
31.	Opposite Drive End Bearing Insulation or Grounding Device?	none	
32.	Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device	? none	
33.	Opposite Drive End Bearing Condition	worn/contaminated grease	
34.	Drive End Seal		
35.	Opposite Drive End Seal		
Rotor	Inspection		0
36.	Rotor Type/Material	(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast	
37.	Growler Test	(Pass) Pass	
38.	Number of Rotor Bars		
39.	Rotor Condition	rotor dragged iron	P23
40.	List the Parts needed for the Repair Below New shaft, rewind stator, sleeve housing fits		
41.	Signature of Technician that Disassembled Motor		
Mecha	inical Fits- Rotor		
42.	Shaft Runout		
43.	Rotor Runout		
	Drive End Bearing Fit Rotor Body	Opposite Drive End Bearing	

	44.	Coupling Fit Closest to Bearing He	ousing		
		0 Degrees	90 Degrees	120 Degrees	
	45.	Coupling Fit Closest to the end of	the Shaft		
		0 Degrees	60 Degrees	120 Degrees	
	46.	Drive End Bearing Shaft Fit			
		0 Degrees	60 Degrees	120 Degrees	
	47.	Drive End Bearing Shaft Fit Cond	ition		
	48.	Opposite Drive End Bearing Shafe	: Fit		
		0 Degrees	60 Degrees	120 Degrees	
	49.	Opposite Drive End Bearing Shafe	Fit Condition		
	50.	Shaft Air Seal Fits			
		Drive End Air Seal	Opposite Drive End Air Seal		
Μ	lechai	nical Fits- Bearing Housings			
	51.	Drive End - Endbell Bearing Fit			
		0 Degrees	60 Degrees	120 Degrees	
	•	Lip worn			
	52.	Drive End - Endbell Bearing Fit Co	ondition	(F) Fail	
	53.	Opposite Drive End - Endbell Bea	ring Fit		
		0 Degrees	60 Degrees	120 Degrees	
	•	Lip worn			
	54.	Opposite Drive End - Endbell Bea	ring Fit Condition	(F) Fail	
	55.	Bearing Cap Condition			
		Drive End Bearing Cap	Opposite Drive End Bearing Cap		
		pass	pass		
	56.	End Bell Air Seal Fits			
		Drive End Air Seal	Opposite Drive End Air Seal		
	57.	List Machine Work Needed Below			
		Both housing fits and make new shaft			
	58.	Technician		Terrence Holland	
			0		
		7	V		
	/	- APRO			
		1	l l		
R	oot C	ause of Failure			
	59.	Failure locations			
	60	Dest source of failure			
	60.	Root cause of failure			
	60.		minated hard grease. Also found multip	le large pieces of hardened varnish	