

7030 Ryburn Dr. Millington, TN

Phone: (901) 873-5300

Fax: (901) 873-5301

www.gohispeed.com

September 22, 2022

Milwaukee Tools Greenwood, MS

The following is a summary of findings from the September 2022 monthly vibration survey of the Heat Treat Quench Motors. Please let us know if there are any questions or comments.

QualiTest® uses a four step rating system for defects.

<u>Class I:</u> Defect is present, but effect on reliability is not clear; no immediate action is required. Continue to normally monitor.

<u>Class II</u>: Defect (s) present that may cause problem in long term (2-6 months). Repair during normal maintenance scheduling. Continue to monitor.

<u>Class III:</u> Defect (s) present that may cause failure in short term (less than 2 months). This should be addressed as soon as practical, with a high maintenance priority. Increase monitoring frequency.

<u>Class IV</u>; Defect (s) present that makes continued reliability unpredictable, and possibility of secondary damage is high. Repairs should be made ASAP. An unscheduled shutdown should be considered for repairs

Hi-Speed Industrial Service tests and inspects industrial machinery and equipment and makes recommendations concerning maintenance and repairs based on its experience in the field of industrial repair and maintenance. The information contained herein is provided as an opinion only, not as a guaranty or warranty of the matters discussed herein.

Heat Treat Motors

Heat Treat Motor 1

Vibration appeared to be within acceptable limits this survey. No actions necessary at this time.

Heat Treat Motor 2

Vibration appeared to be within acceptable limits this survey. No actions necessary at this time.

Abbreviated Last Measurement Summary			
Database: Milwaukee Tools.rbm Area: HEAT TREAT SYSTEMS			
MEASUREMENT POINT	OVERAL	LLEVEL HFD /	' VHFD
мотов #1 – неат	TREAT MOTOR #1	(13-Sep-22)	
		LL LEVEL 1K-20H	
MOH		In/Sec .072	
MOV		In/Sec .049	
MIH		In/Sec .115	
MIV	.0079	In/Sec .099	G-s
MIA	.011	In/Sec .102	G-s
MOTOR #2 - HEAT	TREAT MOTOR #2	(13-Sep-22)	
		LL LEVEL 1K-20H	
MOH	.134	In/Sec .112	G-s
MOV	.095	In/Sec .096	G-s
MIH	.017	In/Sec .277	G-s
MIV	.012	In/Sec .073	G-s
MIA	.019	In/Sec .152	G-s
Clarification Of Vib	ration Units:		
Acc> G-s	RMS		
Vel> In/S	Sec PK		

As always, it has been a pleasure to serve Milwaukee Tools Greenwood, MS. If there are any comments or questions, do not hesitate to contact us.

Sincerely,

Kerin W. Maxuell

ISO Certified Vibration Analyst, Category III



QualiTest Diagnostics Cell: 901-486-4565 Email: <u>kwilliam@gohispeed.com</u>