



QualiTest® Diagnostics

7030 Ryburn Dr. Millington, TN

Phone: (901) 873-5300

Fax: (901) 873-5301

www.gohispeed.com

November 3, 2022

Milwaukee Tools
Greenwood, MS

The following is a summary of findings from the October 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.

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

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

Class III: 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.

Class IV: 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

Unit was down for maintenance during the survey.

Abbreviated Last Measurement Summary *****

Database: Milwaukee Tools.rbm
Area: HEAT TREAT SYSTEMS

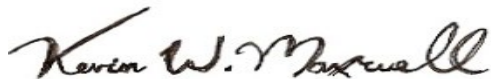
MEASUREMENT POINT	OVERALL LEVEL	HFD / VHFD
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MOTOR #1 - HEAT TREAT MOTOR #1	(27-Oct-22)	
	OVERALL LEVEL	1K-20KHz
MOH	.071 In/Sec	.099 G-s
MOV	.061 In/Sec	.081 G-s
MIH	.011 In/Sec	.179 G-s
MIV	.014 In/Sec	.353 G-s
MIA	.020 In/Sec	.130 G-s
MOTOR #2 - HEAT TREAT MOTOR #2	(13-Sep-22)	
	OVERALL LEVEL	1K-20KHz
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 Vibration Units:

Acc --> G-s RMS
Vel --> In/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,



ISO Certified Vibration Analyst, Category III



QualiTest® Diagnostics

Cell: 901-486-4565

Email: kwilliam@gohispeed.com