



MILLINGTON, TN

March 22, 2021

Company Rockwool

Subject: Fan baseline vibrations

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Justin,

Please find the overall vibration data attached for the two fans that we worked on last Saturday. The SPO fan and the building exhaust fan. A spectrum and waveform are also provided for the Building Exhaust Fan. The vibrations are very good. Note that the exhaust fan overall acceleration is slightly elevated and seems to be either generated by a single vibration peak related to motor rotor bar passing frequency, or vibrations above the fmax of the vibration spectrum we acquired and is of little consequence. Spherical roller bearings which are mounted on this fan generally have more rolling elements and have higher acceleration values. Recommend ensuring those bearings have been greased properly. We appreciate your business.

**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.

This completes our assessment of your equipment for this survey. Thank you for your business and don't hesitate to call if you have any comments or questions.

Sincerely,

*David W Shook*

David W. Shook  
Senior Reliability Specialists  
**Hi-Speed Industrial Service**  
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Abbreviated Last Measurement Summary  
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Database: Analysis.rbm  
Area: ANALYSIS 2  
Report Date: 22-Mar-21 14:12

MEASUREMENT POINT	OVERALL LEVEL	HFD / VHFD	EQUIPMENT SPEED
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SPO FAN - ROCKWOOL SPO FAN		(20-Mar-21)	
	OVERALL LEVEL	1K-20KHz	
MOH	.078 In/Sec	.389 G-s	1790.0 RPM
MOV	.066 In/Sec	.358 G-s	
MIH	.075 In/Sec	.177 G-s	
MIV	.066 In/Sec	.259 G-s	
MIA	.080 In/Sec	.448 G-s	
EIA	.087 In/Sec	.084 G-s	
EIH	.058 In/Sec	.083 G-s	
EIV	.052 In/Sec	.101 G-s	
EOH	.067 In/Sec	.125 G-s	
EOV	.064 In/Sec	.145 G-s	

Clarification Of Vibration Units:

Acc --> G-s RMS  
Vel --> In/Sec PK

Summary

Abbreviated Last Measurement

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Database: Analysis.rbm  
Area: ANALYSIS 2  
Report Date: 22-Mar-21 14:12

MEASUREMENT POINT	OVERALL LEVEL	HFD / VHFD	EQUIPMENT SPEED
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EXHAUSTFAN - ROCKWOOL BUILDING EX FAN		(20-Mar-21)	
	OVERALL LEVEL	1K-20KHz	
MOH	.081 In/Sec	.301 G-s	1790.0 RPM
MOV	.052 In/Sec	.123 G-s	
MIH	.064 In/Sec	.517 G-s	
MIV	.073 In/Sec	.479 G-s	
MIA	.058 In/Sec	.320 G-s	
EIA	.078 In/Sec	.760 G-s	
EIH	.045 In/Sec	.905 G-s	
EIV	.046 In/Sec	1.186 G-s	
EOH	.046 In/Sec	1.123 G-s	
EOV	.052 In/Sec	1.836 G-s	

Clarification Of Vibration Units:

Acc --> G-s RMS  
Vel --> In/Sec PK

