



QualiTest® Diagnostics

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ADM Southern Cotton Oil
Memphis, TN

The following is a summary of findings from the August 2021 quarterly vibration survey at your facility. 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.

Defects

DC Fan

Overall vibration is much lower after repairs were made to this unit. However, the outboard fan bearing is showing some higher frequency non-synchronous peaks in the spectrum. Peaks appear to be non-synchronous which indicate bearing defects. Balance and alignment are good on this unit. and we will continue to monitor this closely. Rated as a **CLASS I** defect.

High Pressure Boiler Fan

Data shows a dominant 1 x rpm vibration which is usually indicative of imbalance. Wheel needs to be inspected for build-up and ensure all fasteners are tight. If all checks good, then a trim balance will be necessary. Rated a **CLASS II** defect.

8-10/17-19 Gin Fan

Vibration data of the fan bearings indicate defects are present in the fan bearings. Fan will likely need attention in the next few months. Rated as a **CLASS II** defect.

11-16 Gin Fan

1 x fan rpm vibration has increased to .3 ips. Not very high but is in low alarm level. Fan likely has build-up causing an imbalance. Clean and inspect wheel as time allows. Rated as a **CLASS II** defect.

#2 Drum Filter Main Fan

Data is indicating that the fan bearing have some mechanical looseness especially the outboard bearing. Inspect fan bearings for looseness and wear soon. Rated as a **CLASS II** defect.

Inclined Beater Fan (OVERS)

Vibration is still high especially in the motor. Data suggests structural issues, possible resonance, fan imbalance. For now, inspect structure for cracks, base for soft foot, and ensure all fasteners are tight. Fan wheel is likely out of balance and needs a trim balance. Rated as a **CLASS III** defect.

Boil Reel Rotex Asp. Fan (On mezzanine w/ Seed Cleaner Fans)

Motor data indicates defects present in the motor bearings. Motor will need attention as scheduling allows. Rated as a **CLASS II** defect.

#3 Drum Filter Fan

Motor still has dominant vibration at 1 x motor rpm. This may be due to sheave wear/misalignment, loose or flexible motor base, soft foot, loose fasteners. Inspect for these issues soon. There also appears to be evidence of a rotor issue such as loose or broken rotor bars. We will continue to monitor this issue closely. Rated as a **CLASS II** defect.

#3 Drum Filter Scalping Fan

Data suggests fan has imbalance. Inspect fan for build-up as soon as scheduling allows. Rated as a **CLASS II** defect.

South Pellet Cooler Fan

Motor is showing signs of bearing issues. Fan bearings are also showing some signs of lubrication issue. Inspect as time allows. Ensure bearings are properly greased soon. Rated as a **CLASS II** defect.

Pellet Mill Drum Filter Fan

Fan has some 1 x fan rpm vibration. Fan may have build-up causing an imbalance. Clean and inspect wheel as time allows. Rated as a **CLASS II** defect.

East Pellet Mill

Motor has high axial vibration. It is highly recommended to inspect the coupling for issues. Ensure coupling is greased and set properly. Also ensure all fasteners are tight. Rated as a **CLASS II** defect.

South Pellet Mill

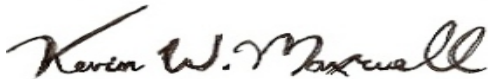
Outboard jackshaft bearing has significant mechanical looseness. Inspect bearing ASAP. Rated as a **CLASS III** defect.

Meats Conditioner Drive

There is a once per conditioner rotating assembly revolution vibration occurring throughout the motor and gearbox. This may be due to the conditioner bearing frame being loose, or an issue with the gear ring on the rotating assembly. It is highly recommended to inspect for these types of issues soon. Rated as a **CLASS III** defect.

As always, it has been a pleasure to serve ADM Southern Cotton Oil. If there are any comments or questions, do not hesitate to contact us.

Sincerely,



ISO Certified Vibration Analyst, Category III



QualiTest® Diagnostics

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Abbreviated Last Measurement Summary

Database: cotton oil.rbm
Station: SOUTHERN COTTON OIL
Route No. 1: SOUTHERNCOTTON

MEASUREMENT POINT -----	OVERALL LEVEL -----	HFD / VHFD -----
DCFAN - DC FAN	(05-Aug-21)	
	OVERALL LEVEL	1 - 20 KHz
MOH - MOTOR OUTBOARD HORIZONTAL	.158 In/Sec	.298 G-s
MIH - MOTOR INBOARD HORIZONTAL	.157 In/Sec	.350 G-s
MIA - MOTOR INBOARD AXIAL	.087 In/Sec	.386 G-s
EIH - EQUIPMENT INBOARD HORIZONTAL	.108 In/Sec	1.287 G-s
EOH - EQUIPMENT OUTBOARD HORIZONTAL	.184 In/Sec	2.044 G-s
BOILFAN - BOILER FAN	(05-Aug-21)	
	OVERALL LEVEL	1 - 20 KHz
MOH - MOTOR OUTBOARD HORIZONTAL	.067 In/Sec	.664 G-s
MIH - MOTOR INBOARD HORIZONTAL	.052 In/Sec	.225 G-s
MIA - MOTOR INBOARD AXIAL	.064 In/Sec	.208 G-s

HPBOILFAN - HIGH PRESSURE BOILER FAN	(05-Aug-21)	
	OVERALL LEVEL	1 - 20 KHz
MOH - MOTOR OUTBOARD HORIZONTAL	.441 In/Sec	.927 G-s
MIH - MOTOR INBOARD HORIZONTAL	.433 In/Sec	.675 G-s
MIA - MOTOR INBOARD AXIAL	.374 In/Sec	.798 G-s
MOV - MOTOR OUTBOARD VERTICAL	.350 In/Sec	.603 G-s
MIV - MOTOR INBOARD VERTICAL	.305 In/Sec	.549 G-s
BRDFMNFAN - BAILING ROOM DRUM FLTR M FAN	(05-Aug-21)	
	OVERALL LEVEL	1 - 20 KHz
MOH - MOTOR OUTBOARD HORIZONTAL	.168 In/Sec	.178 G-s
MIH - MOTOR INBOARD HORIZONTAL	.135 In/Sec	.278 G-s
MIA - MOTOR INBOARD AXIAL	.182 In/Sec	.143 G-s
EIH - EQUIPMENT INBOARD HORIZONTAL	.112 In/Sec	.987 G-s
EIA - EQUIPMENT INBOARD AXIAL	.179 In/Sec	.458 G-s
EOH - EQUIPMENT OUTBOARD HORIZONTAL	.113 In/Sec	.457 G-s
MOV - MOTOR OUTBOARD VERTICAL	.180 In/Sec	.287 G-s
MIV - MOTOR INBOARD VERTICAL	.102 In/Sec	.272 G-s
EIV - EQUIPMENT INBOARD VERTICAL	.103 In/Sec	.468 G-s
EOV - EQUIPMENT OUTBOARD VERTICAL	.087 In/Sec	.616 G-s
BRDFSFAN - BR DRUM FILTER SCALPING FAN	(05-Aug-21)	
	OVERALL LEVEL	1 - 20 KHz
MOH - MOTOR OUTBOARD HORIZONTAL	.152 In/Sec	.289 G-s
MIH - MOTOR INBOARD HORIZONTAL	.158 In/Sec	.475 G-s
MIA - MOTOR INBOARD AXIAL	.117 In/Sec	.398 G-s
MOV - MOTOR OUTBOARD VERTICAL	.174 In/Sec	.631 G-s
MIV - MOTOR INBOARD VERTICAL	.186 In/Sec	.530 G-s
HRDMFAN - HULLER ROOM DRUM MAIN FAN	(05-Aug-21)	
	OVERALL LEVEL	1-20 KHz
MOH - MOTOR OUTBOARD HORIZONTAL	.273 In/Sec	.276 G-s
MOV - MOTOR OUTBOARD VERTICAL	.200 In/Sec	.304 G-s
MIV - MOTOR INBOARD VERTICAL	.209 In/Sec	.968 G-s
MIH - MOTOR INBOARD HORIZONTAL	.174 In/Sec	.608 G-s
MA - MOTOR AXIAL	.320 In/Sec	.349 G-s
FA - FAN AXIAL	.291 In/Sec	.724 G-s
FIH - FAN INBOARD HORIZONTAL	.218 In/Sec	.893 G-s
FIV - FAN INBOARD VERTICAL	.084 In/Sec	1.790 G-s
FOV - FAN OUTBOARD VERTICAL	.107 In/Sec	1.222 G-s
FOH - FAN OUTBOARD HORIZONTAL	.205 In/Sec	.600 G-s
HRDFSFAN - HR DRUM FILTER SCALPING FAN	(05-Aug-21)	
	OVERALL LEVEL	1 - 20 KHz
MOH - MOTOR OUTBOARD HORIZONTAL	.198 In/Sec	.397 G-s
MIH - MOTOR INBOARD HORIZONTAL	.109 In/Sec	.319 G-s
MIA - MOTOR INBOARD AXIAL	.111 In/Sec	.377 G-s
MOV - MOTOR OUTBOARD VERTICAL	.162 In/Sec	.065 G-s
MIV - MOTOR INBOARD VERTICAL	.140 In/Sec	.392 G-s
1DMFLTRFAN - #1 DRUM FILTER MAIN FAN	(05-Aug-21)	
	OVERALL LEVEL	1 - 20 KHz
MOH - MOTOR OUTBOARD HORIZONTAL	.107 In/Sec	.379 G-s
MIH - MOTOR INBOARD HORIZONTAL	.108 In/Sec	.432 G-s
MIA - MOTOR INBOARD AXIAL	.126 In/Sec	.218 G-s
EIH - EQUIPMENT INBOARD HORIZONTAL	.161 In/Sec	1.236 G-s
EIA - EQUIPMENT INBOARD AXIAL	.238 In/Sec	.554 G-s
EOH - EQUIPMENT OUTBOARD HORIZONTAL	.175 In/Sec	.497 G-s
MOV - MOTOR OUTBOARD VERTICAL	.128 In/Sec	.254 G-s
MIV - MOTOR INBOARD VERTICAL	.114 In/Sec	.274 G-s
EIV - EQUIPMENT INBOARD VERTICAL	.123 In/Sec	.676 G-s
EOV - EQUIPMENT OUTBOARD VERTICAL	.067 In/Sec	.757 G-s
1DRMFSFAN - #1 DRUM FILTER SCALPING FAN	(05-Aug-21)	
	OVERALL LEVEL	1 - 20 KHz
MOH - MOTOR OUTBOARD HORIZONTAL	.107 In/Sec	.325 G-s
MIH - MOTOR INBOARD HORIZONTAL	.118 In/Sec	.606 G-s
MIA - MOTOR INBOARD AXIAL	.189 In/Sec	.115 G-s
MOV - MOTOR OUTBOARD VERTICAL	.117 In/Sec	.426 G-s
MIV - MOTOR INBOARD VERTICAL	.148 In/Sec	.555 G-s

8-10/17-19 - 8-10/17-19 GIN FAN

(05-Aug-21)

	OVERALL LEVEL	1 - 20 KHz
MOH - MOTOR OUTBOARD HORIZONTAL	.093 In/Sec	.377 G-s
MIH - MOTOR INBOARD HORIZONTAL	.124 In/Sec	.529 G-s
MIA - MOTOR INBOARD AXIAL	.084 In/Sec	.254 G-s
EIH - EQUIPMENT INBOARD HORIZONTAL	.184 In/Sec	1.198 G-s
EIA - EQUIPMENT INBOARD AXIAL	.179 In/Sec	.994 G-s
EOH - EQUIPMENT OUTBOARD HORIZONTAL	.201 In/Sec	2.481 G-s
MOV - MOTOR OUTBOARD VERTICAL	.092 In/Sec	.301 G-s
MIV - MOTOR INBOARD VERTICAL	.143 In/Sec	.477 G-s
EIV - EQUIPMENT INBOARD VERTICAL	.199 In/Sec	1.605 G-s
EOV - EQUIPMENT OUTBOARD VERTICAL	.197 In/Sec	2.013 G-s

11-16 FAN - 11-16 GIN FAN

(05-Aug-21)

	OVERALL LEVEL	1 - 20 KHz
MOH - MOTOR OUTBOARD HORIZONTAL	.126 In/Sec	.501 G-s
MIH - MOTOR INBOARD HORIZONTAL	.142 In/Sec	.381 G-s
MIA - MOTOR INBOARD AXIAL	.106 In/Sec	.251 G-s
EIH - EQUIPMENT INBOARD HORIZONTAL	.221 In/Sec	.740 G-s
EIA - EQUIPMENT INBOARD AXIAL	.160 In/Sec	.298 G-s
EOH - EQUIPMENT OUTBOARD HORIZONTAL	.313 In/Sec	1.384 G-s
MOV - MOTOR OUTBOARD VERTICAL	.121 In/Sec	.517 G-s
MIV - MOTOR INBOARD VERTICAL	.155 In/Sec	.379 G-s
EIV - EQUIPMENT INBOARD VERTICAL	.100 In/Sec	.430 G-s
EOV - EQUIPMENT OUTBOARD VERTICAL	.128 In/Sec	1.306 G-s

2DRMFLTRFN - #2 DRUM FILTER MAIN FAN

(05-Aug-21)

	OVERALL LEVEL	1 - 20 KHz
MOH - MOTOR OUTBOARD HORIZONTAL	.129 In/Sec	.452 G-s
MIH - MOTOR INBOARD HORIZONTAL	.117 In/Sec	.658 G-s
MIA - MOTOR INBOARD AXIAL	.134 In/Sec	.691 G-s
EIH - EQUIPMENT INBOARD HORIZONTAL	.337 In/Sec	.757 G-s
EIA - EQUIPMENT INBOARD AXIAL	.442 In/Sec	.624 G-s
EOH - EQUIPMENT OUTBOARD HORIZONTAL	.189 In/Sec	.460 G-s
MOV - MOTOR OUTBOARD VERTICAL	.232 In/Sec	.631 G-s
MIV - MOTOR INBOARD VERTICAL	.142 In/Sec	.798 G-s
EIV - EQUIPMENT INBOARD VERTICAL	.332 In/Sec	1.123 G-s
EOV - EQUIPMENT OUTBOARD VERTICAL	.188 In/Sec	.586 G-s

2DFSFAN - #2 DRUM FILTER SCALPING FAN

(05-Aug-21)

	OVERALL LEVEL	1 - 20 KHz
MOH - MOTOR OUTBOARD HORIZONTAL	.209 In/Sec	.970 G-s
MIH - MOTOR INBOARD HORIZONTAL	.073 In/Sec	.597 G-s
MIA - MOTOR INBOARD AXIAL	.153 In/Sec	.487 G-s
MOV - MOTOR OUTBOARD VERTICAL	.138 In/Sec	.958 G-s
MIV - MOTOR INBOARD VERTICAL	.110 In/Sec	.240 G-s

1STCUTFAN - 1ST CUT SHALE FAN

(05-Aug-21)

	OVERALL LEVEL	1 - 20 KHz
MOH - MOTOR OUTBOARD HORIZONTAL	.299 In/Sec	.381 G-s
MIH - MOTOR INBOARD HORIZONTAL	.409 In/Sec	.359 G-s
MIA - MOTOR INBOARD AXIAL	.276 In/Sec	.197 G-s
EIH - EQUIPMENT INBOARD HORIZONTAL	.353 In/Sec	.675 G-s
EIA - EQUIPMENT INBOARD AXIAL	.173 In/Sec	.465 G-s
EOH - EQUIPMENT OUTBOARD HORIZONTAL	.260 In/Sec	.662 G-s
MOV - MOTOR OUTBOARD VERTICAL	.357 In/Sec	.440 G-s
MIV - MOTOR INBOARD VERTICAL	.335 In/Sec	.362 G-s
EIV - EQUIPMENT INBOARD VERTICAL	.161 In/Sec	.346 G-s
EOV - EQUIPMENT OUTBOARD VERTICAL	.160 In/Sec	.385 G-s

BBASPFAN - BURR BELT ASPIRATION FAN

(05-Aug-21)

	OVERALL LEVEL	1 - 20 KHz
MOH - MOTOR OUTBOARD HORIZONTAL	.358 In/Sec	.710 G-s
MIH - MOTOR INBOARD HORIZONTAL	.259 In/Sec	.458 G-s
MIA - MOTOR INBOARD AXIAL	.140 In/Sec	.275 G-s
EIH - EQUIPMENT INBOARD HORIZONTAL	.402 In/Sec	.914 G-s
EIA - EQUIPMENT INBOARD AXIAL	.396 In/Sec	.348 G-s
EOH - EQUIPMENT OUTBOARD HORIZONTAL	.282 In/Sec	.575 G-s
MOV - MOTOR OUTBOARD VERTICAL	.132 In/Sec	.679 G-s

MIV - MOTOR INBOARD VERTICAL	.253 In/Sec	.337 G-s
EIV - EQUIPMENT INBOARD VERTICAL	.165 In/Sec	.693 G-s
EOV - EQUIPMENT OUTBOARD VERTICAL	.190 In/Sec	.559 G-s
INCLBTRFAN - INCLINED BEATER FAN		
	(05-Aug-21)	
	OVERALL LEVEL	1 - 20 KHz
MOH - MOTOR OUTBOARD HORIZONTAL	.693 In/Sec	.867 G-s
MIH - MOTOR INBOARD HORIZONTAL	.873 In/Sec	.855 G-s
MIA - MOTOR INBOARD AXIAL	.311 In/Sec	.454 G-s
EIH - EQUIPMENT INBOARD HORIZONTAL	.632 In/Sec	.807 G-s
EIA - EQUIPMENT INBOARD AXIAL	.425 In/Sec	.276 G-s
EOH - EQUIPMENT OUTBOARD HORIZONTAL	.596 In/Sec	1.234 G-s
MOV - MOTOR OUTBOARD VERTICAL	.238 In/Sec	1.465 G-s
MIV - MOTOR INBOARD VERTICAL	.179 In/Sec	.888 G-s
EIV - EQUIPMENT INBOARD VERTICAL	.402 In/Sec	.588 G-s
EOV - EQUIPMENT OUTBOARD VERTICAL	.527 In/Sec	.602 G-s
MOTESFAN - MOTES FAN		
	(05-Aug-21)	
	OVERALL LEVEL	1 - 20 KHz
MOH - MOTOR OUTBOARD HORIZONTAL	.202 In/Sec	.561 G-s
MIH - MOTOR INBOARD HORIZONTAL	.293 In/Sec	2.922 G-s
MIA - MOTOR INBOARD AXIAL	.365 In/Sec	.252 G-s
EIH - EQUIPMENT INBOARD HORIZONTAL	.418 In/Sec	1.156 G-s
EIA - EQUIPMENT INBOARD AXIAL	.433 In/Sec	.566 G-s
EOH - EQUIPMENT OUTBOARD HORIZONTAL	.210 In/Sec	.755 G-s
MOV - MOTOR OUTBOARD VERTICAL	.201 In/Sec	.419 G-s
MIV - MOTOR INBOARD VERTICAL	.139 In/Sec	.829 G-s
EIV - EQUIPMENT INBOARD VERTICAL	.219 In/Sec	.630 G-s
EOV - EQUIPMENT OUTBOARD VERTICAL	.148 In/Sec	.464 G-s
BR&RTXASPF - BOIL REEL & ROTEX ASP. FAN		
	(05-Aug-21)	
	OVERALL LEVEL	1 - 20 KHz
MOH - MOTOR OUTBOARD HORIZONTAL	.193 In/Sec	1.480 G-s
MIH - MOTOR INBOARD HORIZONTAL	.293 In/Sec	2.717 G-s
MIA - MOTOR INBOARD AXIAL	.172 In/Sec	1.335 G-s
EIH - EQUIPMENT INBOARD HORIZONTAL	.175 In/Sec	.907 G-s
EIA - EQUIPMENT INBOARD AXIAL	.349 In/Sec	.527 G-s
EOH - EQUIPMENT OUTBOARD HORIZONTAL	.219 In/Sec	.895 G-s
MOV - MOTOR OUTBOARD VERTICAL	.225 In/Sec	2.356 G-s
MIV - MOTOR INBOARD VERTICAL	.222 In/Sec	1.821 G-s
EIV - EQUIPMENT INBOARD VERTICAL	.233 In/Sec	.499 G-s
EOV - EQUIPMENT OUTBOARD VERTICAL	.213 In/Sec	.401 G-s
#1SEEDCLNF - #1 SEED CLEANER FAN		
	(05-Aug-21)	
	OVERALL LEVEL	1 - 20 KHz
MOH - MOTOR OUTBOARD HORIZONTAL	.193 In/Sec	.848 G-s
MIH - MOTOR INBOARD HORIZONTAL	.156 In/Sec	.269 G-s
MIA - MOTOR INBOARD AXIAL	.246 In/Sec	.246 G-s
EIH - EQUIPMENT INBOARD HORIZONTAL	.232 In/Sec	2.033 G-s
EIA - EQUIPMENT INBOARD AXIAL	.373 In/Sec	.037 G-s
EOH - EQUIPMENT OUTBOARD HORIZONTAL	.216 In/Sec	1.004 G-s
MOV - MOTOR OUTBOARD VERTICAL	.303 In/Sec	.262 G-s
MIV - MOTOR INBOARD VERTICAL	.302 In/Sec	.590 G-s
EIV - EQUIPMENT INBOARD VERTICAL	.407 In/Sec	.707 G-s
EOV - EQUIPMENT OUTBOARD VERTICAL	.207 In/Sec	.391 G-s
#2SEEDCLNF - #2 SEED CLEANER FAN		
	(05-Aug-21)	
	OVERALL LEVEL	1 - 20 KHz
MOH - MOTOR OUTBOARD HORIZONTAL	.216 In/Sec	.319 G-s
MIH - MOTOR INBOARD HORIZONTAL	.203 In/Sec	.302 G-s
MIA - MOTOR INBOARD AXIAL	.310 In/Sec	.337 G-s
EIH - EQUIPMENT INBOARD HORIZONTAL	.200 In/Sec	.333 G-s
EIA - EQUIPMENT INBOARD AXIAL	.303 In/Sec	.259 G-s
EOH - EQUIPMENT OUTBOARD HORIZONTAL	.180 In/Sec	.461 G-s
MOV - MOTOR OUTBOARD VERTICAL	.345 In/Sec	.384 G-s
MIV - MOTOR INBOARD VERTICAL	.164 In/Sec	.391 G-s
EIV - EQUIPMENT INBOARD VERTICAL	.236 In/Sec	.396 G-s
EOV - EQUIPMENT OUTBOARD VERTICAL	.243 In/Sec	.410 G-s
#3SEEDCLNF - #3 SEED CLEANER FAN		
	(05-Aug-21)	

	OVERALL LEVEL	1 - 20 KHz
MOH - MOTOR OUTBOARD HORIZONTAL	.195 In/Sec	.863 G-s
MIH - MOTOR INBOARD HORIZONTAL	.131 In/Sec	.406 G-s
MIA - MOTOR INBOARD AXIAL	.305 In/Sec	.264 G-s
EIH - EQUIPMENT INBOARD HORIZONTAL	.278 In/Sec	.509 G-s
EIA - EQUIPMENT INBOARD AXIAL	.279 In/Sec	.206 G-s
EOH - EQUIPMENT OUTBOARD HORIZONTAL	.271 In/Sec	.623 G-s
MOV - MOTOR OUTBOARD VERTICAL	.335 In/Sec	.569 G-s
MIV - MOTOR INBOARD VERTICAL	.235 In/Sec	.349 G-s
EIV - EQUIPMENT INBOARD VERTICAL	.301 In/Sec	.299 G-s
EOV - EQUIPMENT OUTBOARD VERTICAL	.217 In/Sec	.409 G-s

#4SEEDCLNF - #4 SEED CLEANER FAN

(05-Aug-21)

	OVERALL LEVEL	1 - 20 KHz
MOH - MOTOR OUTBOARD HORIZONTAL	.125 In/Sec	.358 G-s
MIH - MOTOR INBOARD HORIZONTAL	.194 In/Sec	.398 G-s
MIA - MOTOR INBOARD AXIAL	.173 In/Sec	.551 G-s
EIH - EQUIPMENT INBOARD HORIZONTAL	.150 In/Sec	1.086 G-s
EIA - EQUIPMENT INBOARD AXIAL	.125 In/Sec	.438 G-s
EOH - EQUIPMENT OUTBOARD HORIZONTAL	.171 In/Sec	.712 G-s
MOV - MOTOR OUTBOARD VERTICAL	.217 In/Sec	.342 G-s
MIV - MOTOR INBOARD VERTICAL	.141 In/Sec	.399 G-s
EIV - EQUIPMENT INBOARD VERTICAL	.163 In/Sec	1.008 G-s
EOV - EQUIPMENT OUTBOARD VERTICAL	.166 In/Sec	.456 G-s

#3DFLTMFAN - #3 DRUM FILTER MAIN FAN

(05-Aug-21)

	OVERALL LEVEL	1 - 20 KHz
MOH - MOTOR OUTBOARD HORIZONTAL	.220 In/Sec	1.339 G-s
MIH - MOTOR INBOARD HORIZONTAL	.229 In/Sec	.763 G-s
MIA - MOTOR INBOARD AXIAL	.139 In/Sec	.401 G-s
EIH - EQUIPMENT INBOARD HORIZONTAL	.297 In/Sec	1.702 G-s
EIA - EQUIPMENT INBOARD AXIAL	.373 In/Sec	1.043 G-s
EOH - EQUIPMENT OUTBOARD HORIZONTAL	.262 In/Sec	1.063 G-s
MOV - MOTOR OUTBOARD VERTICAL	.104 In/Sec	1.048 G-s
MIV - MOTOR INBOARD VERTICAL	.276 In/Sec	.689 G-s
EIV - EQUIPMENT INBOARD VERTICAL	.227 In/Sec	1.640 G-s
EOV - EQUIPMENT OUTBOARD VERTICAL	.114 In/Sec	1.675 G-s

#3DFLTSEFAN - #3 DRUM FILTER SCALPING FAN

(05-Aug-21)

	OVERALL LEVEL	1 - 20 KHz
MOH - MOTOR OUTBOARD HORIZONTAL	.311 In/Sec	.346 G-s
MIH - MOTOR INBOARD HORIZONTAL	.410 In/Sec	.487 G-s
MIA - MOTOR INBOARD AXIAL	.118 In/Sec	.196 G-s
MOV - MOTOR OUTBOARD VERTICAL	.132 In/Sec	.341 G-s
MIV - MOTOR INBOARD VERTICAL	.189 In/Sec	.552 G-s

1-7GINFAN - 1-7 GIN FAN

(09-Aug-21)

	OVERALL LEVEL	1 - 20 KHz
MOH - MOTOR OUTBOARD HORIZONTAL	.103 In/Sec	.873 G-s
MIH - MOTOR INBOARD HORIZONTAL	.088 In/Sec	.971 G-s
MIA - MOTOR INBOARD AXIAL	.107 In/Sec	.333 G-s
EIH - EQUIPMENT INBOARD HORIZONTAL	.195 In/Sec	.304 G-s
EIA - EQUIPMENT INBOARD AXIAL	.305 In/Sec	.156 G-s
EOH - EQUIPMENT OUTBOARD HORIZONTAL	.238 In/Sec	.269 G-s
MOV - MOTOR OUTBOARD VERTICAL	.164 In/Sec	.442 G-s
MIV - MOTOR INBOARD VERTICAL	.160 In/Sec	.442 G-s
EIV - EQUIPMENT INBOARD VERTICAL	.147 In/Sec	.368 G-s
EOV - EQUIPMENT OUTBOARD VERTICAL	.148 In/Sec	.327 G-s

20-26GNFN - 20-26 GIN FAN

(09-Aug-21)

	OVERALL LEVEL	1 - 20 KHz
MOH - MOTOR OUTBOARD HORIZONTAL	.103 In/Sec	.238 G-s
MIH - MOTOR INBOARD HORIZONTAL	.115 In/Sec	.162 G-s
MIA - MOTOR INBOARD AXIAL	.078 In/Sec	.135 G-s
EIH - EQUIPMENT INBOARD HORIZONTAL	.193 In/Sec	.817 G-s
EIA - EQUIPMENT INBOARD AXIAL	.197 In/Sec	.337 G-s
EOH - EQUIPMENT OUTBOARD HORIZONTAL	.180 In/Sec	.682 G-s
MOV - MOTOR OUTBOARD VERTICAL	.105 In/Sec	.153 G-s
MIV - MOTOR INBOARD VERTICAL	.132 In/Sec	.242 G-s
EIV - EQUIPMENT INBOARD VERTICAL	.171 In/Sec	.984 G-s

EOV - EQUIPMENT OUTBOARD VERTICAL	.127 In/Sec	.735 G-s
PDFMNFAN - PELLETING DRUM MAIN FAN (09-Aug-21)		
	OVERALL LEVEL	1 - 20 KHz
MOH - MOTOR OUTBOARD HORIZONTAL	.154 In/Sec	.510 G-s
MIH - MOTOR INBOARD HORIZONTAL	.148 In/Sec	.602 G-s
MIA - MOTOR INBOARD AXIAL	.134 In/Sec	.366 G-s
EIH - EQUIPMENT INBOARD HORIZONTAL	.417 In/Sec	1.247 G-s
EIA - EQUIPMENT INBOARD AXIAL	.362 In/Sec	.537 G-s
EOH - EQUIPMENT OUTBOARD HORIZONTAL	.355 In/Sec	.454 G-s
MOV - MOTOR OUTBOARD VERTICAL	.089 In/Sec	.375 G-s
MIV - MOTOR INBOARD VERTICAL	.162 In/Sec	.422 G-s
EIV - EQUIPMENT INBOARD VERTICAL	.124 In/Sec	1.749 G-s
EOV - EQUIPMENT OUTBOARD VERTICAL	.164 In/Sec	1.441 G-s
PDFSCFAN - PELLETING DRUM SCALPING FAN (09-Aug-21)		
	OVERALL LEVEL	1 - 20 KHz
MOH - MOTOR OUTBOARD HORIZONTAL	.117 In/Sec	1.098 G-s
MIH - MOTOR INBOARD HORIZONTAL	.070 In/Sec	.476 G-s
MIA - MOTOR INBOARD AXIAL	.079 In/Sec	.143 G-s
MOV - MOTOR OUTBOARD VERTICAL	.096 In/Sec	.944 G-s
MIV - MOTOR INBOARD VERTICAL	.048 In/Sec	.343 G-s
SPCOOLFAN - SOUTH PELLET COOLER FAN (09-Aug-21)		
	OVERALL LEVEL	1 - 20 KHz
MOH - MOTOR OUTBOARD HORIZONTAL	.382 In/Sec	.839 G-s
MIH - MOTOR INBOARD HORIZONTAL	.397 In/Sec	.732 G-s
MIA - MOTOR INBOARD AXIAL	.267 In/Sec	.249 G-s
EIH - EQUIPMENT INBOARD HORIZONTAL	.232 In/Sec	1.468 G-s
EIA - EQUIPMENT INBOARD AXIAL	.409 In/Sec	.469 G-s
EOH - EQUIPMENT OUTBOARD HORIZONTAL	.264 In/Sec	1.172 G-s
MOV - MOTOR OUTBOARD VERTICAL	.367 In/Sec	.476 G-s
MIV - MOTOR INBOARD VERTICAL	.384 In/Sec	1.079 G-s
EIV - EQUIPMENT INBOARD VERTICAL	.266 In/Sec	.903 G-s
EOV - EQUIPMENT OUTBOARD VERTICAL	.258 In/Sec	.648 G-s
NPCOOLFAN - NORTH PELLET COOLER FAN (09-Aug-21)		
	OVERALL LEVEL	1 - 20 KHz
MOH - MOTOR OUTBOARD HORIZONTAL	.126 In/Sec	.343 G-s
MIH - MOTOR INBOARD HORIZONTAL	.135 In/Sec	.585 G-s
MIA - MOTOR INBOARD AXIAL	.192 In/Sec	.124 G-s
EIH - EQUIPMENT INBOARD HORIZONTAL	.197 In/Sec	.823 G-s
EIA - EQUIPMENT INBOARD AXIAL	.191 In/Sec	.384 G-s
EOH - EQUIPMENT OUTBOARD HORIZONTAL	.176 In/Sec	.977 G-s
MOV - MOTOR OUTBOARD VERTICAL	.181 In/Sec	.077 G-s
MIV - MOTOR INBOARD VERTICAL	.229 In/Sec	.234 G-s
EIV - EQUIPMENT INBOARD VERTICAL	.264 In/Sec	.382 G-s
EOV - EQUIPMENT OUTBOARD VERTICAL	.147 In/Sec	.440 G-s
NGRNDMILL - NORTH GRINDER MILL (09-Aug-21)		
	OVERALL LEVEL	1 - 20 KHz
MOH - MOTOR OUTBOARD HORIZONTAL	.277 In/Sec	.456 G-s
MIH - MOTOR INBOARD HORIZONTAL	.294 In/Sec	1.434 G-s
MIA - MOTOR INBOARD AXIAL	.060 In/Sec	.660 G-s
EIH - EQUIPMENT INBOARD HORIZONTAL	.285 In/Sec	2.490 G-s
EIA - EQUIPMENT INBOARD AXIAL	.204 In/Sec	2.322 G-s
EOH - EQUIPMENT OUTBOARD HORIZONTAL	.188 In/Sec	.534 G-s
MOV - MOTOR OUTBOARD VERTICAL	.069 In/Sec	.982 G-s
MIV - MOTOR INBOARD VERTICAL	.090 In/Sec	1.070 G-s
EIV - EQUIPMENT INBOARD VERTICAL	.143 In/Sec	2.408 G-s
EOV - EQUIPMENT OUTBOARD VERTICAL	.132 In/Sec	.050 G-s
EPELETMILL - EAST PELLET MILL (09-Aug-21)		
	OVERALL LEVEL	1 - 20 KHz
MOH - MOTOR OUTBOARD HORIZONTAL	.348 In/Sec	.255 G-s
MIH - MOTOR INBOARD HORIZONTAL	.323 In/Sec	.240 G-s
MIA - MOTOR INBOARD AXIAL	.607 In/Sec	.693 G-s
EIH - EQUIPMENT INBOARD HORIZONTAL	.536 In/Sec	1.134 G-s
EOH - EQUIPMENT OUTBOARD HORIZONTAL	.639 In/Sec	.914 G-s
MOV - MOTOR OUTBOARD VERTICAL	.326 In/Sec	.320 G-s

MIV - MOTOR INBOARD VERTICAL	.258 In/Sec	.309 G-s
EIV - EQUIPMENT INBOARD VERTICAL	.289 In/Sec	.421 G-s
EOV - EQUIPMENT OUTBOARD VERTICAL	.298 In/Sec	.906 G-s
EOA - EQUIPMENT OUTBOARD AXIAL	.350 In/Sec	1.155 G-s

SPELETMILL - SOUTH PELLET MILL

(09-Aug-21)

	OVERALL LEVEL	1 - 20 KHz
MOH - MOTOR OUTBOARD HORIZONTAL	.238 In/Sec	.519 G-s
MIH - MOTOR INBOARD HORIZONTAL	.216 In/Sec	.293 G-s
MIA - MOTOR INBOARD AXIAL	.281 In/Sec	.711 G-s
EIH - EQUIPMENT INBOARD HORIZONTAL	.496 In/Sec	1.509 G-s
EOH - EQUIPMENT OUTBOARD HORIZONTAL	.485 In/Sec	1.215 G-s
MOV - MOTOR OUTBOARD VERTICAL	.224 In/Sec	1.182 G-s
MIV - MOTOR INBOARD VERTICAL	.256 In/Sec	.261 G-s
EIV - EQUIPMENT INBOARD VERTICAL	.250 In/Sec	.509 G-s
EOV - EQUIPMENT OUTBOARD VERTICAL	.526 In/Sec	1.075 G-s
EOA - EQUIPMENT OUTBOARD AXIAL	.464 In/Sec	.653 G-s

MTSCONDDRV - MEATS CONDITIONER DRIVE

(09-Aug-21)

	OVERALL LEVEL	1 - 20 KHz
MOH - MOTOR OUTBOARD HORIZONTAL	.338 In/Sec	.426 G-s
MOV - MOTOR OUTBOARD VERTICAL	.256 In/Sec	.282 G-s
MIH - MOTOR INBOARD HORIZONTAL	.268 In/Sec	.303 G-s
MIV - MOTOR INBOARD VERTICAL	.275 In/Sec	.771 G-s
MIA - MOTOR INBOARD AXIAL	.217 In/Sec	.138 G-s
GIH - GEARBOX INBOARD HORIZONTAL	.117 In/Sec	.195 G-s
GIV - GEARBOX INBOARD VERTICAL	.102 In/Sec	.247 G-s
GIA - GEARBOX INBOARD AXIAL	.261 In/Sec	.925 G-s
GOH - GEARBOX OUTBOARD HORIZONTAL	.172 In/Sec	.336 G-s
GOV - GEARBOX OUTBOARD VERTICAL	.153 In/Sec	.232 G-s
GOA - GEARBOX OUTBOARD AXIAL	.176 In/Sec	.120 G-s

Clarification Of Vibration Units:

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