



QualiTest® Diagnostics

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DECEMBER 15, 2021

SOUTHER COTTON OIL
Memphis, TN

The following is a summary of findings from the December 2021 vibration survey at Southern Cotton Oil .

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.

North Condenser Wash Pump

The vibration data shows a very high 1x of over 2 inches per second on motor and pump.

. Check all bolts, alignment and coupling this is a **Class IV** defect

High Pressure Boiler Combustion Blower

The vibration data is a very high 1x of over .4 inches per second on motor this is a direct fan mount to the motor.

This is an indication of out of balance, clean and inspect fan for damage and looseness this is a **Class III** defect

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Conditioner Aspiration Fan

The vibration data indicates significant wear in the fan bearings the movement is over 1.7 inches per second.

Replace bearings check shaft for wear, replace shaft if out of tolerance. this is a **Class IV** defect.

#1 Flaking Roll

The vibration data indicates a lot of noise in the rolls we will need to collect more data in the future for trending. This is a **Class I** defect

#3 Flaking Roll

The vibration data indicates a lot of noise in the rolls we will need to collect more data in the future for trending. This is a **Class I** defect

#4 Flaking Roll

The vibration data indicates a lot of noise in the rolls we will need to collect more data in the future for trending. This is a **Class I** defect

Meats Conditioner Aspiration fan

The vibration data indicates looseness in the motor. Check for loose motor bolts and motor base, check pulley for wear. This is a **Class II** defect

Meats Conditioner

Vibration data indicates possible loose bolts in motor or possible soft foot. Check for loose bolts and soft foot. This is a **Class II** defect

Collet Cooler Fan

The vibration data indicates a high 1 time of .494 inches per second. Clean fan and inspect for damage check bolts for tightness. This is a **Class II** defect

Safety Aspiration Fan

The vibration data indicates a high 1 time of .542 inches per second. Clean fan and inspect for damage check bolts for tightness. This is a **Class II defect**

East Deodorizer Pump

The pump has high vibration check the pump coupling and pump shaft for runout, also check the pump impeller for damage. This is a **Class II defect**

North Hot Well Pump

The pump has excessive wear on the bearings, change pump as soon as possible this is a **Class IV defect.**

Condex Flue Gas Supply Fan

The vibration data indicates a high 1 time of .947 inches per second. Clean fan and inspect for damage check bolts for tightness. This is a **Class IV defect.**

Flaking Roll Aspiration Fan

The vibration data indicates significant wear in the fan bearings clean fan and replace bearings check shaft for wear, replace shaft if out of tolerance. this is a **Class IV defect.**

East Vacuum Oil Dryer

The vibration data indicates significant wear in the pump bearings replace pump. this is a **Class II defect.**

East Hexane Work Pump

The pump has high vibration check the pump coupling and pump shaft for runout, also check the pump impeller for damage. This is a **Class II defect**

South Water Draw Off Pump

The pump has high vibration check the pump coupling and pump shaft for runout. This is a **Class II defect**

North Water Draw Off Pump

The vibration data indicates multiple harmonics of 1 time running speed on motor and pump.
. Check all bolts, alignment and coupling this is a **Class II defect**

South ½ Miscella pump

The vibration data indicates multiple harmonics of 1 time running speed on motor and pump.
. Check all bolts, alignment and coupling this is a **Class II defect**

North Full Miscella Pump

The vibration data indicates wear in the motor bearings. Replace motor and new alignment to pump. this is a **Class III defect**.

South Mineral Oil Pump

The vibration data indicates wear in the motor bearings. Replace motor and new alignment to pump. this is a **Class III defect**.

MISSED MEASUREMENT POINTS LIST

Database: \...ERN COTTON OIL TRIAXIAL.rbm

Area: NEW ROUTE 2

Route No. 1: NEW ROUTE 2

Report Date: 16-Dec-21 10:47

Data Collected: 09-Dec-21

<u>EQUIPMENT ID</u>	<u>DESCRIPTION</u>	<u>MEAS. PT.</u>	<u>LAST SURVEY</u>
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17C	SAFTEY ASPIRATION FAN	EIA	NEVER
	EIH	NEVER	
	EIV	NEVER	
	EOH	NEVER	
	EOV	NEVER	
P-4A D	WEST DEODORIZER PUMP	All	NEVER
1 D	DUST COLLECTOR FAN	MOV	NEVER
	MIH	NEVER	
	MIV	NEVER	
	MIA	NEVER	
	EIA	NEVER	
	EIH	NEVER	
	EIV	NEVER	
	EOH	NEVER	
	EOV	NEVER	
17 E	CONDEX FLUE GAS SUPPLY FAN	EIA	NEVER
	EIH	NEVER	
	EIV	NEVER	
	EOH	NEVER	
	EOV	NEVER	

P2-16	P2-16	AII	NEVER
2-6F	WEST VAC OIL DRYER PUMP	AII	NEVER
19A	DT GEAR UNIT PUMP WEST	AII	NEVER
6 C	NORTH 1ST STAGE PUMP	AII	NEVER
12 C	WEST HEXANE WORK PUMP	AII	NEVER

MISSED MEASUREMENT POINTS LIST

Database: \...ERN COTTON OIL TRIAXIAL.rbm

Area: NEW ROUTE 1

Route No. 1: NEW ROUTE 1

Report Date: 16-Dec-21 10:52

Data Collected: 09-Dec-21

<u>EQUIPMENT ID</u>	<u>DESCRIPTION</u>	<u>MEAS. PT.</u>	<u>LAST SURVEY</u>
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P-4B D	N COOLING WATER DEODORIZER	AII	NEVER
PREP2-17D	SOUTH FEED WTR PMP	AII	NEVER
P-8A D	SOUTH CONDENSER WASH PUMP	AII	NEVER
PREP 2-4B	HP BOILER COMBUSTION BLOWER	EIA	NEVER
	EIH	NEVER	
	EIV	NEVER	
	EOH	NEVER	
	EOV	NEVER	
P-5 B	SLURRY TANK PUMP	AII	NEVER
PRP5 33FP8	PRE COAT TANK PUMP	AII	NEVER
P-3B D	SOUTH DEORDERIZER PUMP	AII	NEVER
P-9B	HEEL TANK PUMP	AII	NEVER

P-6B EAST	BLEACHER PUMP EAST	AII	NEVER
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21 D	#5 FLAKING ROLL	AII	NEVER
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MISSED MEASUREMENT POINTS LIST

Database: \...ERN COTTON OIL TRIAXIAL.rbm

Area: NEW ROUTE 3

Route No. 1: NEW ROUTE 3

Report Date: 16-Dec-21 10:54

Data Collected: 09-Dec-21

EQUIPMENT ID	DESCRIPTION	MEAS. PT.	LAST SURVEY
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1	EAST SOAP PUMP	AII	NEVER
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23B	SOUTH LYE INJECTOR PUMP	AII	NEVER
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7E	1/8 MISCELLA PUMP	AII	NEVER
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8 D	NORTH 2ND STAGE PUMP	AII	NEVER
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15B	SOUTH FULL MESCELLA PUMP	AII	NEVER
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8C	NORTH MINERAL OIL PUMP	AII	NEVER
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8E	EAST OIL STRIPPER PUMP	AII	NEVER
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13C	WEST HYD DRIVE	AII	NEVER
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24	WEST WEST FALIA	AII	NEVER
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The following is the data collected

Abbreviated Last Measurement Summary

Database: \...ERN COTTON OIL TRIAXIAL.rbm

Area: NEW ROUTE 1

MEASUREMENT POINT	OVERALL LEVEL	HFD / VHFD
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P4-AD - S COOLING WATER DEODORIZER (09-Dec-21)

OVERALL LEVEL 1 - 20 KHz

MOH - MOTOR OB HORIZONTAL	.032 In/Sec	.318 G-s
MOV - MOTOR OB VERTICAL	.035 In/Sec	.193 G-s
MIH - MOTOR IB HORIZONTAL	.028 In/Sec	.106 G-s
MIV - MOTOR IB VERTICAL	.043 In/Sec	.042 G-s
MIA - MOTOR IB AXIAL	.037 In/Sec	.044 G-s
EIA - EQUIPMENT IB AXIAL	.346 In/Sec	.067 G-s
EIH - EQUIPMENT IB HORIZONTAL	.267 In/Sec	.319 G-s
EIV - EQUIPMENT IB VERTICAL	.206 In/Sec	.074 G-s
EOH - EQUIPMENT OB HORIZONTAL	.136 In/Sec	.168 G-s
EOV - EQUIPMENT OB VERTICAL	.201 In/Sec	.110 G-s

PREP1-12 E - N FEED WTR PMP (09-Dec-21)

OVERALL LEVEL 1 - 20 KHz

MOH - MOTOR OB HORIZONTAL	.096 In/Sec	.321 G-s
MOV - MOTOR OB VERTICAL	.101 In/Sec	.195 G-s
MIH - MOTOR IB HORIZONTAL	.089 In/Sec	.423 G-s
MIV - MOTOR IB VERTICAL	.077 In/Sec	.156 G-s
MIA - MOTOR IB AXIAL	.059 In/Sec	.102 G-s
EIA - EQUIPMENT IB AXIAL	.062 In/Sec	.184 G-s
EIH - EQUIPMENT IB HORIZONTAL	.068 In/Sec	.220 G-s
EIV - EQUIPMENT IB VERTICAL	.049 In/Sec	.125 G-s
EOH - EQUIPMENT OB HORIZONTAL	.075 In/Sec	.363 G-s
EOV - EQUIPMENT OB VERTICAL	.043 In/Sec	.168 G-s

P-8B D - NORTH CONDENSER WASH PUMP (09-Dec-21)

OVERALL LEVEL 1 - 20 KHz

MOH - MOTOR OB HORIZONTAL	1.308 In/Sec	.843 G-s
MOV - MOTOR OB VERTICAL	2.014 In/Sec	.165 G-s
MIH - MOTOR IB HORIZONTAL	1.402 In/Sec	.439 G-s
MIV - MOTOR IB VERTICAL	2.159 In/Sec	.023 G-s
MIA - MOTOR IB AXIAL	.716 In/Sec	.024 G-s
EIA - EQUIPMENT IB AXIAL	.528 In/Sec	.417 G-s
EIH - EQUIPMENT IB HORIZONTAL	.589 In/Sec	.400 G-s
EIV - EQUIPMENT IB VERTICAL	1.199 In/Sec	.257 G-s
EOH - EQUIPMENT OB HORIZONTAL	.767 In/Sec	.287 G-s
EOV - EQUIPMENT OB VERTICAL	.700 In/Sec	.014 G-s

P-7 D - SCRUBBER PUMP (09-Dec-21)

OVERALL LEVEL 1 - 20 KHz

MOH - MOTOR OB HORIZONTAL	.121 In/Sec	.340 G-s
MOV - MOTOR OB VERTICAL	.093 In/Sec	.065 G-s
MIH - MOTOR IB HORIZONTAL	.084 In/Sec	.249 G-s
MIV - MOTOR IB VERTICAL	.110 In/Sec	.057 G-s
MIA - MOTOR IB AXIAL	.034 In/Sec	.035 G-s
EIA - EQUIPMENT IB AXIAL	.035 In/Sec	.111 G-s
EIH - EQUIPMENT IB HORIZONTAL	.079 In/Sec	.328 G-s
EIV - EQUIPMENT IB VERTICAL	.124 In/Sec	.103 G-s
EOH - EQUIPMENT OB HORIZONTAL	.091 In/Sec	.538 G-s
EOV - EQUIPMENT OB VERTICAL	.122 In/Sec	.207 G-s

P-5 D - DEODORIZER DISCHARGE PUMP (09-Dec-21)

OVERALL LEVEL 1 - 20 KHz

MOH - MOTOR OB HORIZONTAL	.149 In/Sec	.329 G-s
MOV - MOTOR OB VERTICAL	.101 In/Sec	.154 G-s
MIH - MOTOR IB HORIZONTAL	.068 In/Sec	.534 G-s
MIV - MOTOR IB VERTICAL	.222 In/Sec	.162 G-s
MIA - MOTOR IB AXIAL	.249 In/Sec	.135 G-s
EIA - EQUIPMENT IB AXIAL	.197 In/Sec	.513 G-s
EIH - EQUIPMENT IB HORIZONTAL	.170 In/Sec	3.118 G-s
EIV - EQUIPMENT IB VERTICAL	.399 In/Sec	.336 G-s
EOH - EQUIPMENT OB HORIZONTAL	.209 In/Sec	.824 G-s
EOV - EQUIPMENT OB VERTICAL	.296 In/Sec	.444 G-s

PREP 2-4B - HP BOILER COMBUSTION BLOWER (09-Dec-21)

OVERALL LEVEL 1 - 20 KHz

MOH - MOTOR OB HORIZONTAL	.425 In/Sec	.389 G-s
MOV - MOTOR OB VERTICAL	.403 In/Sec	.124 G-s
MIH - MOTOR IB HORIZONTAL	.419 In/Sec	.441 G-s
MIV - MOTOR IB VERTICAL	.365 In/Sec	.119 G-s
MIA - MOTOR IB AXIAL	.206 In/Sec	.059 G-s

10 - CONDITION ASPERATION FAN (09-Dec-21)

OVERALL LEVEL 1 - 20 KHz

MOH - MOTOR OB HORIZONTAL	.447 In/Sec	.410 G-s
MOV - MOTOR OB VERTICAL	.447 In/Sec	.309 G-s
MIH - MOTOR IB HORIZONTAL	.307 In/Sec	.618 G-s
MIV - MOTOR IB VERTICAL	.216 In/Sec	1.042 G-s
MIA - MOTOR IB AXIAL	.282 In/Sec	.154 G-s
EIA - EQUIPMENT IB AXIAL	1.700 In/Sec	2.620 G-s
EIH - EQUIPMENT IB HORIZONTAL	1.302 In/Sec	9.793 G-s

EIV - EQUIPMENT IB VERTICAL	.674 In/Sec	2.442 G-s
EOH - EQUIPMENT OB HORIZONTAL	1.446 In/Sec	8.744 G-s
EOV - EQUIPMENT OB VERTICAL	1.025 In/Sec	2.265 G-s

P-4 B - SLURRY TANK PUMP (09-Dec-21)

OVERALL LEVEL 1 - 20 KHz

MOH - MOTOR OB HORIZONTAL	.062 In/Sec	.210 G-s
MOV - MOTOR OB VERTICAL	.044 In/Sec	.129 G-s
MIH - MOTOR IB HORIZONTAL	.079 In/Sec	.119 G-s
MIV - MOTOR IB VERTICAL	.053 In/Sec	.061 G-s
MIA - MOTOR IB AXIAL	.025 In/Sec	.032 G-s
EIA - EQUIPMENT IB AXIAL	.085 In/Sec	.118 G-s
EIH - EQUIPMENT IB HORIZONTAL	.170 In/Sec	.314 G-s
EIV - EQUIPMENT IB VERTICAL	.057 In/Sec	.116 G-s
EOH - EQUIPMENT OB HORIZONTAL	.075 In/Sec	.160 G-s
EOV - EQUIPMENT OB VERTICAL	.040 In/Sec	.049 G-s

PREP 5-35E - NORTH DEODORIZER PUMP (09-Dec-21)

OVERALL LEVEL 1 - 20 KHz

MOH - MOTOR OB HORIZONTAL	.152 In/Sec	.252 G-s
MOV - MOTOR OB VERTICAL	.105 In/Sec	.160 G-s
MIH - MOTOR IB HORIZONTAL	.166 In/Sec	.390 G-s
MIV - MOTOR IB VERTICAL	.093 In/Sec	.055 G-s
MIA - MOTOR IB AXIAL	.048 In/Sec	.101 G-s
EIA - EQUIPMENT IB AXIAL	.049 In/Sec	.166 G-s
EIH - EQUIPMENT IB HORIZONTAL	.181 In/Sec	.373 G-s
EIV - EQUIPMENT IB VERTICAL	.108 In/Sec	.227 G-s
EOH - EQUIPMENT OB HORIZONTAL	.187 In/Sec	.163 G-s
EOV - EQUIPMENT OB VERTICAL	.153 In/Sec	.092 G-s

P-7B WEST - BLEACHER PUMP WEST (09-Dec-21)

OVERALL LEVEL 1 - 20 KHz

MOH - MOTOR OB HORIZONTAL	.071 In/Sec	.183 G-s
MOV - MOTOR OB VERTICAL	.059 In/Sec	.041 G-s
MIH - MOTOR IB HORIZONTAL	.051 In/Sec	.182 G-s
MIV - MOTOR IB VERTICAL	.063 In/Sec	.019 G-s
MIA - MOTOR IB AXIAL	.070 In/Sec	.017 G-s
EIA - EQUIPMENT IB AXIAL	.097 In/Sec	.176 G-s
EIH - EQUIPMENT IB HORIZONTAL	.104 In/Sec	.392 G-s
EIV - EQUIPMENT IB VERTICAL	.113 In/Sec	.190 G-s
EOH - EQUIPMENT OB HORIZONTAL	.086 In/Sec	.762 G-s
EOV - EQUIPMENT OB VERTICAL	.088 In/Sec	.369 G-s

18 C - FLAKING ASPERATION FEEDER (09-Dec-21)

OVERALL LEVEL 1 - 20 KHz

MOH - MOTOR OB HORIZONTAL	.193 In/Sec	.534 G-s
MOV - MOTOR OB VERTICAL	.244 In/Sec	.181 G-s
MIH - MOTOR IB HORIZONTAL	.152 In/Sec	.539 G-s
MIV - MOTOR IB VERTICAL	.131 In/Sec	.159 G-s
MIA - MOTOR IB AXIAL	.231 In/Sec	.228 G-s
EIA - EQUIPMENT IB AXIAL	.327 In/Sec	.257 G-s
EIH - EQUIPMENT IB HORIZONTAL	.177 In/Sec	.327 G-s
EIV - EQUIPMENT IB VERTICAL	.101 In/Sec	.210 G-s
EOH - EQUIPMENT OB HORIZONTAL	.099 In/Sec	.074 G-s
EOV - EQUIPMENT OB VERTICAL	.041 In/Sec	.034 G-s

CS-1 - #1 FLAKING ROLL (09-Dec-21)

OVERALL LEVEL 1 - 20 KHz

MOH - MOTOR OB HORIZONTAL	.108 In/Sec	.754 G-s
MOV - MOTOR OB VERTICAL	.049 In/Sec	.167 G-s
MIH - MOTOR IB HORIZONTAL	.075 In/Sec	.638 G-s
MIV - MOTOR IB VERTICAL	.051 In/Sec	.292 G-s
MIA - MOTOR IB AXIAL	.059 In/Sec	.384 G-s
EIA - EQUIPMENT IB AXIAL	.264 In/Sec	.089 G-s
EIH - EQUIPMENT IB HORIZONTAL	.365 In/Sec	.267 G-s
EIV - EQUIPMENT IB VERTICAL	.319 In/Sec	.081 G-s
EOH - EQUIPMENT OB HORIZONTAL	.414 In/Sec	.200 G-s
EOV - EQUIPMENT OB VERTICAL	.251 In/Sec	.032 G-s

CS-2 - #2 FLAKING ROLL (09-Dec-21)

OVERALL LEVEL 1 - 20 KHz

MOH - MOTOR OB HORIZONTAL	.049 In/Sec	.239 G-s
MOV - MOTOR OB VERTICAL	.057 In/Sec	.077 G-s
MIH - MOTOR IB HORIZONTAL	.051 In/Sec	.290 G-s
MIV - MOTOR IB VERTICAL	.052 In/Sec	.061 G-s
MIA - MOTOR IB AXIAL	.037 In/Sec	.057 G-s
EIA - EQUIPMENT IB AXIAL	.191 In/Sec	.024 G-s
EIH - EQUIPMENT IB HORIZONTAL	.157 In/Sec	.040 G-s
EIV - EQUIPMENT IB VERTICAL	.193 In/Sec	.018 G-s
EOH - EQUIPMENT OB HORIZONTAL	.144 In/Sec	.236 G-s
EOV - EQUIPMENT OB VERTICAL	.183 In/Sec	.021 G-s

CS-3 - #3 FLAKING ROLL (09-Dec-21)

OVERALL LEVEL 1 - 20 KHz

MOH - MOTOR OB HORIZONTAL	.137 In/Sec	.105 G-s
MOV - MOTOR OB VERTICAL	.093 In/Sec	.150 G-s
MIH - MOTOR IB HORIZONTAL	.116 In/Sec	.179 G-s
MIV - MOTOR IB VERTICAL	.111 In/Sec	.038 G-s

MIA - MOTOR IB AXIAL	.071 In/Sec	.059 G-s
EIA - EQUIPMENT IB AXIAL	.323 In/Sec	.041 G-s
EIH - EQUIPMENT IB HORIZONTAL	.321 In/Sec	.219 G-s
EIV - EQUIPMENT IB VERTICAL	.263 In/Sec	.026 G-s
EOH - EQUIPMENT OB HORIZONTAL	.527 In/Sec	.131 G-s
EOV - EQUIPMENT OB VERTICAL	.284 In/Sec	.019 G-s

22D - #4 FLAKING ROLL (09-Dec-21)

OVERALL LEVEL 1 - 20 KHz

MOH - MOTOR OB HORIZONTAL	.131 In/Sec	.192 G-s
MOV - MOTOR OB VERTICAL	.115 In/Sec	.119 G-s
MIH - MOTOR IB HORIZONTAL	.113 In/Sec	.174 G-s
MIV - MOTOR IB VERTICAL	.154 In/Sec	.037 G-s
MIA - MOTOR IB AXIAL	.113 In/Sec	.029 G-s
EIA - EQUIPMENT IB AXIAL	.135 In/Sec	.0067 G-s
EIH - EQUIPMENT IB HORIZONTAL	.624 In/Sec	.018 G-s
EIV - EQUIPMENT IB VERTICAL	.325 In/Sec	.0052 G-s
EOH - EQUIPMENT OB HORIZONTAL	.307 In/Sec	.026 G-s
EOV - EQUIPMENT OB VERTICAL	.235 In/Sec	.017 G-s

2 D - MEATS BIN OUTDEEDER (09-Dec-21)

OVERALL LEVEL 1 - 20 KHz

MOH - MOTOR OB HORIZONTAL	.311 In/Sec	.310 G-s
MOV - MOTOR OB VERTICAL	.146 In/Sec	.166 G-s
MIH - MOTOR IB HORIZONTAL	.282 In/Sec	.434 G-s
MIV - MOTOR IB VERTICAL	.181 In/Sec	.141 G-s
MIA - MOTOR IB AXIAL	.129 In/Sec	.140 G-s
EIA - EQUIPMENT IB AXIAL	.115 In/Sec	.127 G-s
EIH - EQUIPMENT IB HORIZONTAL	.317 In/Sec	.107 G-s
EIV - EQUIPMENT IB VERTICAL	.057 In/Sec	.120 G-s
EOH - EQUIPMENT OB HORIZONTAL	.255 In/Sec	.107 G-s
EOV - EQUIPMENT OB VERTICAL	.052 In/Sec	.043 G-s

Clarification Of Vibration Units:

Acc --> G-s RMS

Vel --> In/Sec PK

Abbreviated Last Measurement Summary

Database: \...ERN COTTON OIL TRIAXIAL.rbm

Area: NEW ROUTE 2

Route No. 1: NEW ROUTE 2

MEASUREMENT POINT	OVERALL LEVEL	HFD / VHFD
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18 F - MEATS CONDITIONER ASP FAN (09-Dec-21)		
OVERALL LEVEL 1 - 20 KHz		
MOH - MOTOR OB HORIZONTAL	.310 In/Sec	.231 G-s
MOV - MOTOR OB VERTICAL	.314 In/Sec	.116 G-s
MIH - MOTOR IB HORIZONTAL	.278 In/Sec	.267 G-s
MIV - MOTOR IB VERTICAL	.215 In/Sec	.122 G-s
MIA - MOTOR IB AXIAL	.190 In/Sec	.123 G-s
EIA - EQUIPMENT IB AXIAL	.179 In/Sec	.200 G-s
EIH - EQUIPMENT IB HORIZONTAL	.188 In/Sec	.173 G-s
EIV - EQUIPMENT IB VERTICAL	.227 In/Sec	.116 G-s
EOH - EQUIPMENT OB HORIZONTAL	.213 In/Sec	.131 G-s
EOV - EQUIPMENT OB VERTICAL	.158 In/Sec	.043 G-s
4 D - PREP CONDENSATE PUMP (09-Dec-21)		
OVERALL LEVEL 1 - 20 KHz		
MOH - MOTOR OB HORIZONTAL	.136 In/Sec	.025 G-s
MOV - MOTOR OB VERTICAL	.131 In/Sec	.0064 G-s
MIH - MOTOR IB HORIZONTAL	.140 In/Sec	.052 G-s
MIV - MOTOR IB VERTICAL	.161 In/Sec	.012 G-s
MIA - MOTOR IB AXIAL	.097 In/Sec	.030 G-s
EIA - EQUIPMENT IB AXIAL	.086 In/Sec	.206 G-s
EIH - EQUIPMENT IB HORIZONTAL	.163 In/Sec	.229 G-s
EIV - EQUIPMENT IB VERTICAL	.112 In/Sec	.168 G-s
EOH - EQUIPMENT OB HORIZONTAL	.124 In/Sec	.231 G-s
EOV - EQUIPMENT OB VERTICAL	.127 In/Sec	.081 G-s
3 - MEATS CONDITIONER (09-Dec-21)		
OVERALL LEVEL 1 - 20 KHz		
MOH - MOTOR OB HORIZONTAL	.612 In/Sec	.364 G-s
MOV - MOTOR OB VERTICAL	.823 In/Sec	.334 G-s
MIH - MOTOR IB HORIZONTAL	.328 In/Sec	.421 G-s
MIV - MOTOR IB VERTICAL	.419 In/Sec	.285 G-s
MIA - MOTOR IB AXIAL	.187 In/Sec	.511 G-s
EIA - EQUIPMENT IB AXIAL	.146 In/Sec	.283 G-s
EIH - EQUIPMENT IB HORIZONTAL	.076 In/Sec	.246 G-s
EIV - EQUIPMENT IB VERTICAL	.143 In/Sec	.244 G-s
EOH - EQUIPMENT OB HORIZONTAL	.137 In/Sec	.426 G-s
EOV - EQUIPMENT OB VERTICAL	.164 In/Sec	.277 G-s

1A - EXPANDER #1 (09-Dec-21)

OVERALL LEVEL 1 - 20 KHz

MOH - MOTOR OB HORIZONTAL	.355 In/Sec	.488 G-s
MOV - MOTOR OB VERTICAL	.194 In/Sec	.185 G-s
MIH - MOTOR IB HORIZONTAL	.447 In/Sec	.184 G-s
MIV - MOTOR IB VERTICAL	.185 In/Sec	.102 G-s
MIA - MOTOR IB AXIAL	.274 In/Sec	.261 G-s
EIA - EQUIPMENT IB AXIAL	.362 In/Sec	.088 G-s
EIH - EQUIPMENT IB HORIZONTAL	.259 In/Sec	.164 G-s
EIV - EQUIPMENT IB VERTICAL	.186 In/Sec	.055 G-s
EOH - EQUIPMENT OB HORIZONTAL	.275 In/Sec	.277 G-s
EOV - EQUIPMENT OB VERTICAL	.146 In/Sec	.027 G-s

2A - EXPANDER #2 (09-Dec-21)

OVERALL LEVEL 1 - 20 KHz

MOH - MOTOR OB HORIZONTAL	.204 In/Sec	.456 G-s
MOV - MOTOR OB VERTICAL	.206 In/Sec	.139 G-s
MIH - MOTOR IB HORIZONTAL	.201 In/Sec	.496 G-s
MIV - MOTOR IB VERTICAL	.221 In/Sec	.247 G-s
MIA - MOTOR IB AXIAL	.190 In/Sec	.309 G-s
EIA - EQUIPMENT IB AXIAL	.136 In/Sec	.080 G-s
EIH - EQUIPMENT IB HORIZONTAL	.237 In/Sec	.290 G-s
EIV - EQUIPMENT IB VERTICAL	.135 In/Sec	.091 G-s
EOH - EQUIPMENT OB HORIZONTAL	.186 In/Sec	.173 G-s
EOV - EQUIPMENT OB VERTICAL	.140 In/Sec	.072 G-s

21 B - COLLET COOLER FAN (09-Dec-21)

OVERALL LEVEL 1 - 20 KHz

MOH - MOTOR OB HORIZONTAL	.350 In/Sec	.052 G-s
MOV - MOTOR OB VERTICAL	.494 In/Sec	.069 G-s
MIH - MOTOR IB HORIZONTAL	.306 In/Sec	.439 G-s
MIV - MOTOR IB VERTICAL	.344 In/Sec	.232 G-s
MIA - MOTOR IB AXIAL	.412 In/Sec	.171 G-s
EIA - EQUIPMENT IB AXIAL	.384 In/Sec	.173 G-s
EIH - EQUIPMENT IB HORIZONTAL	.454 In/Sec	.741 G-s
EIV - EQUIPMENT IB VERTICAL	.181 In/Sec	.409 G-s
EOH - EQUIPMENT OB HORIZONTAL	.400 In/Sec	.420 G-s
EOV - EQUIPMENT OB VERTICAL	.276 In/Sec	.246 G-s

17C - SAFTEY ASPIRATION FAN (09-Dec-21)

OVERALL LEVEL 1 - 20 KHz

MOH - MOTOR OB HORIZONTAL	.627 In/Sec	.088 G-s
MOV - MOTOR OB VERTICAL	.248 In/Sec	.0078 G-s
MIH - MOTOR IB HORIZONTAL	.568 In/Sec	.012 G-s

MIV - MOTOR IB VERTICAL	.209 In/Sec	.0056 G-s
MIA - MOTOR IB AXIAL	.250 In/Sec	.0077 G-s

P-4B D - EAST DEODERIZER PUMP (09-Dec-21)

OVERALL LEVEL 1 - 20 KHz		
MOH - MOTOR OB HORIZONTAL	.220 In/Sec	.356 G-s
MOV - MOTOR OB VERTICAL	.076 In/Sec	.164 G-s
MIH - MOTOR IB HORIZONTAL	.054 In/Sec	.385 G-s
MIV - MOTOR IB VERTICAL	.092 In/Sec	.023 G-s
MIA - MOTOR IB AXIAL	.079 In/Sec	.021 G-s
EIA - EQUIPMENT IB AXIAL	.213 In/Sec	.740 G-s
EIH - EQUIPMENT IB HORIZONTAL	.584 In/Sec	.429 G-s
EIV - EQUIPMENT IB VERTICAL	.283 In/Sec	.418 G-s
EOH - EQUIPMENT OB HORIZONTAL	.559 In/Sec	.503 G-s
EOV - EQUIPMENT OB VERTICAL	.295 In/Sec	.183 G-s

P-13 D - NORTH HOT WELL PUMP (09-Dec-21)

OVERALL LEVEL 1 - 20 KHz		
MOH - MOTOR OB HORIZONTAL	.128 In/Sec	.359 G-s
MOV - MOTOR OB VERTICAL	.079 In/Sec	.210 G-s
MIH - MOTOR IB HORIZONTAL	.117 In/Sec	.242 G-s
MIV - MOTOR IB VERTICAL	.090 In/Sec	.087 G-s
MIA - MOTOR IB AXIAL	.104 In/Sec	.083 G-s
EIA - EQUIPMENT IB AXIAL	.287 In/Sec	.836 G-s
EIH - EQUIPMENT IB HORIZONTAL	.101 In/Sec	1.966 G-s
EIV - EQUIPMENT IB VERTICAL	.094 In/Sec	1.252 G-s
EOH - EQUIPMENT OB HORIZONTAL	.153 In/Sec	1.944 G-s
EOV - EQUIPMENT OB VERTICAL	.182 In/Sec	.400 G-s

1 D - DUST COLLECTOR FAN (09-Dec-21)

OVERALL LEVEL 1 - 20 KHz		
MOH - MOTOR OB HORIZONTAL	.951 In/Sec	1.059 G-s

17 E - CONDEX FLUE GAS SUPPLY FAN (09-Dec-21)

OVERALL LEVEL 1 - 20 KHz		
MOH - MOTOR OB HORIZONTAL	.937 In/Sec	1.101 G-s
MOV - MOTOR OB VERTICAL	.611 In/Sec	.314 G-s
MIH - MOTOR IB HORIZONTAL	.901 In/Sec	1.203 G-s
MIV - MOTOR IB VERTICAL	.801 In/Sec	.468 G-s
MIA - MOTOR IB AXIAL	.947 In/Sec	1.383 G-s

1 A - FLAKING ROLL ASPERATION FAN (09-Dec-21)

OVERALL LEVEL 1 - 20 KHz		
MOH - MOTOR OB HORIZONTAL	.977 In/Sec	1.472 G-s

MOV - MOTOR OB VERTICAL	.804 In/Sec	.627 G-s
MIH - MOTOR IB HORIZONTAL	.912 In/Sec	1.470 G-s
MIV - MOTOR IB VERTICAL	.431 In/Sec	.592 G-s
MIA - MOTOR IB AXIAL	.406 In/Sec	.394 G-s
EIA - EQUIPMENT IB AXIAL	.698 In/Sec	1.133 G-s
EIH - EQUIPMENT IB HORIZONTAL	.550 In/Sec	8.496 G-s
EIV - EQUIPMENT IB VERTICAL	.490 In/Sec	.762 G-s
EOH - EQUIPMENT OB HORIZONTAL	.298 In/Sec	.764 G-s
EOV - EQUIPMENT OB VERTICAL	.478 In/Sec	.321 G-s

2-6 E - EAST VAC OIL DRYER PUMP (09-Dec-21)

OVERALL LEVEL 1 - 20 KHz

MOH - MOTOR OB HORIZONTAL	.099 In/Sec	.049 G-s
MOV - MOTOR OB VERTICAL	.161 In/Sec	.059 G-s
MIH - MOTOR IB HORIZONTAL	.112 In/Sec	.061 G-s
MIV - MOTOR IB VERTICAL	.117 In/Sec	.022 G-s
MIA - MOTOR IB AXIAL	.103 In/Sec	.029 G-s
EIA - EQUIPMENT IB AXIAL	1.720 In/Sec	.414 G-s
EIH - EQUIPMENT IB HORIZONTAL	.435 In/Sec	.849 G-s
EIV - EQUIPMENT IB VERTICAL	1.071 In/Sec	.352 G-s
EOH - EQUIPMENT OB HORIZONTAL	.333 In/Sec	.304 G-s
EOV - EQUIPMENT OB VERTICAL	.378 In/Sec	.471 G-s

18 - DT GEAR UNIT PUMP WEST (09-Dec-21)

OVERALL LEVEL 1 - 20 KHz

MOH - MOTOR OB HORIZONTAL	.070 In/Sec	.157 G-s
MOV - MOTOR OB VERTICAL	.038 In/Sec	.075 G-s
MIH - MOTOR IB HORIZONTAL	.066 In/Sec	.192 G-s
MIV - MOTOR IB VERTICAL	.036 In/Sec	.137 G-s
MIA - MOTOR IB AXIAL	.035 In/Sec	.084 G-s
EIA - EQUIPMENT IB AXIAL	.111 In/Sec	.927 G-s
EIH - EQUIPMENT IB HORIZONTAL	.077 In/Sec	.666 G-s
EIV - EQUIPMENT IB VERTICAL	.106 In/Sec	.564 G-s
EOH - EQUIPMENT OB HORIZONTAL	.055 In/Sec	.180 G-s
EOV - EQUIPMENT OB VERTICAL	.030 In/Sec	.067 G-s

1-10 D - DT DRIVE (09-Dec-21)

OVERALL LEVEL 1 - 20 KHz

MOH - MOTOR OB HORIZONTAL	.094 In/Sec	.156 G-s
MOV - MOTOR OB VERTICAL	.137 In/Sec	.053 G-s
MIH - MOTOR IB HORIZONTAL	.121 In/Sec	.166 G-s
MIV - MOTOR IB VERTICAL	.146 In/Sec	.069 G-s
MIA - MOTOR IB AXIAL	.129 In/Sec	.088 G-s
EIA - EQUIPMENT IB AXIAL	.133 In/Sec	.183 G-s

EIH - EQUIPMENT IB HORIZONTAL	.104 In/Sec	.295 G-s
EIV - EQUIPMENT IB VERTICAL	.071 In/Sec	.557 G-s
EOH - EQUIPMENT OB HORIZONTAL	.020 In/Sec	.075 G-s
EOV - EQUIPMENT OB VERTICAL	.045 In/Sec	.211 G-s

13 D - SOUTH 1ST STAGE PUMP (09-Dec-21)

OVERALL LEVEL 1 - 20 KHz

MOH - MOTOR OB HORIZONTAL	.094 In/Sec	.737 G-s
MOV - MOTOR OB VERTICAL	.137 In/Sec	.977 G-s
MIH - MOTOR IB HORIZONTAL	.116 In/Sec	.907 G-s
MIV - MOTOR IB VERTICAL	.137 In/Sec	.163 G-s
MIA - MOTOR IB AXIAL	.244 In/Sec	.217 G-s
EIA - EQUIPMENT IB AXIAL	.090 In/Sec	.231 G-s
EIH - EQUIPMENT IB HORIZONTAL	.067 In/Sec	.314 G-s
EIV - EQUIPMENT IB VERTICAL	.084 In/Sec	.116 G-s
EOH - EQUIPMENT OB HORIZONTAL	.057 In/Sec	.203 G-s
EOV - EQUIPMENT OB VERTICAL	.055 In/Sec	.118 G-s

12 D - EAST HEXANE WORK PUMP (09-Dec-21)

OVERALL LEVEL 1 - 20 KHz

MOH - MOTOR OB HORIZONTAL	.092 In/Sec	1.289 G-s
MOV - MOTOR OB VERTICAL	.156 In/Sec	.484 G-s
MIH - MOTOR IB HORIZONTAL	.092 In/Sec	1.483 G-s
MIV - MOTOR IB VERTICAL	.166 In/Sec	.545 G-s
MIA - MOTOR IB AXIAL	.102 In/Sec	.636 G-s
EIA - EQUIPMENT IB AXIAL	.070 In/Sec	.374 G-s
EIH - EQUIPMENT IB HORIZONTAL	.129 In/Sec	.688 G-s
EIV - EQUIPMENT IB VERTICAL	.093 In/Sec	.449 G-s
EOH - EQUIPMENT OB HORIZONTAL	.081 In/Sec	1.685 G-s
EOV - EQUIPMENT OB VERTICAL	.073 In/Sec	.260 G-s

13 A - SOUTH WATER DRAW OFF PUMP (09-Dec-21)

OVERALL LEVEL 1 - 20 KHz

MOH - MOTOR OB HORIZONTAL	.105 In/Sec	.552 G-s
MOV - MOTOR OB VERTICAL	.445 In/Sec	.110 G-s
MIH - MOTOR IB HORIZONTAL	.097 In/Sec	.649 G-s
MIV - MOTOR IB VERTICAL	.314 In/Sec	.169 G-s
MIA - MOTOR IB AXIAL	.188 In/Sec	.223 G-s
EIA - EQUIPMENT IB AXIAL	.455 In/Sec	.154 G-s
EIH - EQUIPMENT IB HORIZONTAL	.260 In/Sec	.322 G-s
EIV - EQUIPMENT IB VERTICAL	.459 In/Sec	.105 G-s
EOH - EQUIPMENT OB HORIZONTAL	.109 In/Sec	.501 G-s
EOV - EQUIPMENT OB VERTICAL	.327 In/Sec	.370 G-s

12 B - NORTH WATER DRAW OFF PUMP (09-Dec-21)

OVERALL LEVEL 1 - 20 KHz

MOH - MOTOR OB HORIZONTAL	.544 In/Sec	.886 G-s
MOV - MOTOR OB VERTICAL	.439 In/Sec	.172 G-s
MIH - MOTOR IB HORIZONTAL	.233 In/Sec	1.165 G-s
MIV - MOTOR IB VERTICAL	.537 In/Sec	.354 G-s
MIA - MOTOR IB AXIAL	.665 In/Sec	.489 G-s
EIA - EQUIPMENT IB AXIAL	.368 In/Sec	.227 G-s
EIH - EQUIPMENT IB HORIZONTAL	.637 In/Sec	.539 G-s
EIV - EQUIPMENT IB VERTICAL	.607 In/Sec	.165 G-s
EOH - EQUIPMENT OB HORIZONTAL	.365 In/Sec	.599 G-s
EOV - EQUIPMENT OB VERTICAL	.429 In/Sec	.509 G-s

Clarification Of Vibration Units:

Acc --> G-s RMS

Vel --> In/Sec PK

Abbreviated Last Measurement Summary

Database: \...ERN COTTON OIL TRIAXIAL.rbm

Area: NEW ROUTE 3

Route No. 1: NEW ROUTE 3

Report Date: 16-Dec-21 10:58

MEASUREMENT POINT OVERALL LEVEL HFD / VHFD

2 - WEST SOAP PUMP (09-Dec-21)

OVERALL LEVEL 1 - 20 KHz

MOH - MOTOR OB HORIZONTAL	.047 In/Sec	.043 G-s
MOV - MOTOR OB VERTICAL	.047 In/Sec	.010 G-s
MIH - MOTOR IB HORIZONTAL	.040 In/Sec	.075 G-s
MIV - MOTOR IB VERTICAL	.061 In/Sec	.0094 G-s
MIA - MOTOR IB AXIAL	.034 In/Sec	.011 G-s
EIA - EQUIPMENT IB AXIAL	.021 In/Sec	.0038 G-s
EIH - EQUIPMENT IB HORIZONTAL	.033 In/Sec	.0064 G-s
EIV - EQUIPMENT IB VERTICAL	.034 In/Sec	.0033 G-s
EOH - EQUIPMENT OB HORIZONTAL	.032 In/Sec	.012 G-s
EOV - EQUIPMENT OB VERTICAL	.039 In/Sec	.011 G-s

23A - NORTH LYE INJECTION PUMP (09-Dec-21)

OVERALL LEVEL 1 - 20 KHz

MOH - MOTOR OB HORIZONTAL	.058 In/Sec	.259 G-s
MOV - MOTOR OB VERTICAL	.090 In/Sec	.189 G-s
MIH - MOTOR IB HORIZONTAL	.081 In/Sec	.202 G-s
MIV - MOTOR IB VERTICAL	.136 In/Sec	.058 G-s
MIA - MOTOR IB AXIAL	.141 In/Sec	.109 G-s
EIA - EQUIPMENT IB AXIAL	.106 In/Sec	.346 G-s
EIH - EQUIPMENT IB HORIZONTAL	.073 In/Sec	.511 G-s
EIV - EQUIPMENT IB VERTICAL	.121 In/Sec	.175 G-s
EOH - EQUIPMENT OB HORIZONTAL	.060 In/Sec	.967 G-s
EOV - EQUIPMENT OB VERTICAL	.103 In/Sec	.309 G-s

7A - EXTRACTION CONDENSATE PUMP (09-Dec-21)

OVERALL LEVEL 1 - 20 KHz

MOH - MOTOR OB HORIZONTAL	.049 In/Sec	.240 G-s
MOV - MOTOR OB VERTICAL	.130 In/Sec	.064 G-s
MIH - MOTOR IB HORIZONTAL	.045 In/Sec	.266 G-s
MIV - MOTOR IB VERTICAL	.070 In/Sec	.083 G-s
MIA - MOTOR IB AXIAL	.109 In/Sec	.109 G-s
EIA - EQUIPMENT IB AXIAL	.058 In/Sec	.116 G-s
EIH - EQUIPMENT IB HORIZONTAL	.073 In/Sec	.745 G-s
EIV - EQUIPMENT IB VERTICAL	.078 In/Sec	.176 G-s
EOH - EQUIPMENT OB HORIZONTAL	.074 In/Sec	.936 G-s
EOV - EQUIPMENT OB VERTICAL	.078 In/Sec	.088 G-s

7D - 1/4 MISCELLA PUMP (09-Dec-21)

OVERALL LEVEL 1 - 20 KHz

MOH - MOTOR OB HORIZONTAL	.041 In/Sec	.134 G-s
MOV - MOTOR OB VERTICAL	.133 In/Sec	.385 G-s
MIH - MOTOR IB HORIZONTAL	.056 In/Sec	.118 G-s
MIV - MOTOR IB VERTICAL	.107 In/Sec	.024 G-s
MIA - MOTOR IB AXIAL	.107 In/Sec	.034 G-s
EIA - EQUIPMENT IB AXIAL	.120 In/Sec	.027 G-s
EIH - EQUIPMENT IB HORIZONTAL	.226 In/Sec	.124 G-s
EIV - EQUIPMENT IB VERTICAL	.162 In/Sec	.036 G-s
EOH - EQUIPMENT OB HORIZONTAL	.093 In/Sec	.064 G-s
EOV - EQUIPMENT OB VERTICAL	.091 In/Sec	.019 G-s

7C - NORTH 1/2 MISCELLA PUMP (09-Dec-21)

OVERALL LEVEL 1 - 20 KHz

MOH - MOTOR OB HORIZONTAL	.058 In/Sec	.133 G-s
MOV - MOTOR OB VERTICAL	.145 In/Sec	.098 G-s
MIH - MOTOR IB HORIZONTAL	.080 In/Sec	.203 G-s
MIV - MOTOR IB VERTICAL	.240 In/Sec	.030 G-s
MIA - MOTOR IB AXIAL	.306 In/Sec	.024 G-s

EIA - EQUIPMENT IB AXIAL	.122 In/Sec	.168 G-s
EIH - EQUIPMENT IB HORIZONTAL	.212 In/Sec	.687 G-s
EIV - EQUIPMENT IB VERTICAL	.297 In/Sec	.202 G-s
EOH - EQUIPMENT OB HORIZONTAL	.116 In/Sec	.222 G-s
EOV - EQUIPMENT OB VERTICAL	.195 In/Sec	.112 G-s

7F - SOUTH 1/2 MISCELLA PUMP (09-Dec-21)

OVERALL LEVEL 1 - 20 KHz

MOH - MOTOR OB HORIZONTAL	.248 In/Sec	.660 G-s
MOV - MOTOR OB VERTICAL	.296 In/Sec	.108 G-s
MIH - MOTOR IB HORIZONTAL	.138 In/Sec	.660 G-s
MIV - MOTOR IB VERTICAL	.185 In/Sec	.303 G-s
MIA - MOTOR IB AXIAL	.196 In/Sec	.259 G-s
EIA - EQUIPMENT IB AXIAL	.160 In/Sec	.295 G-s
EIH - EQUIPMENT IB HORIZONTAL	.320 In/Sec	.282 G-s
EIV - EQUIPMENT IB VERTICAL	.220 In/Sec	.368 G-s
EOH - EQUIPMENT OB HORIZONTAL	.150 In/Sec	.236 G-s
EOV - EQUIPMENT OB VERTICAL	.114 In/Sec	.146 G-s

11 - SOUTH 2ND STAGE PUMP (09-Dec-21)

OVERALL LEVEL 1 - 20 KHz

MOH - MOTOR OB HORIZONTAL	.120 In/Sec	.162 G-s
MOV - MOTOR OB VERTICAL	.339 In/Sec	.219 G-s
MIH - MOTOR IB HORIZONTAL	.151 In/Sec	.140 G-s
MIV - MOTOR IB VERTICAL	.153 In/Sec	.051 G-s
MIA - MOTOR IB AXIAL	.218 In/Sec	.022 G-s
EIA - EQUIPMENT IB AXIAL	.212 In/Sec	.046 G-s
EIH - EQUIPMENT IB HORIZONTAL	.357 In/Sec	.226 G-s
EIV - EQUIPMENT IB VERTICAL	.167 In/Sec	.050 G-s
EOH - EQUIPMENT OB HORIZONTAL	.167 In/Sec	.239 G-s
EOV - EQUIPMENT OB VERTICAL	.141 In/Sec	.024 G-s

5E - NORTH FULL MISCELLA PUMP (09-Dec-21)

OVERALL LEVEL 1 - 20 KHz

MOH - MOTOR OB HORIZONTAL	.381 In/Sec	1.239 G-s
MOV - MOTOR OB VERTICAL	.326 In/Sec	.395 G-s
MIH - MOTOR IB HORIZONTAL	.219 In/Sec	1.904 G-s
MIV - MOTOR IB VERTICAL	.659 In/Sec	.354 G-s
MIA - MOTOR IB AXIAL	.503 In/Sec	.336 G-s
EIA - EQUIPMENT IB AXIAL	.243 In/Sec	.215 G-s
EIH - EQUIPMENT IB HORIZONTAL	.509 In/Sec	.666 G-s
EIV - EQUIPMENT IB VERTICAL	.369 In/Sec	.213 G-s
EOH - EQUIPMENT OB HORIZONTAL	.284 In/Sec	.967 G-s
EOV - EQUIPMENT OB VERTICAL	.323 In/Sec	.223 G-s

15A	- 3/4 MESCELLA PUMP	(09-Dec-21)
OVERALL LEVEL 1 - 20 KHz		
MOH - MOTOR OB HORIZONTAL	.238 In/Sec	.169 G-s
MOV - MOTOR OB VERTICAL	.169 In/Sec	.058 G-s
MIH - MOTOR IB HORIZONTAL	.151 In/Sec	.218 G-s
MIV - MOTOR IB VERTICAL	.178 In/Sec	.164 G-s
MIA - MOTOR IB AXIAL	.202 In/Sec	.174 G-s
EIA - EQUIPMENT IB AXIAL	.166 In/Sec	.074 G-s
EIH - EQUIPMENT IB HORIZONTAL	.214 In/Sec	.200 G-s
EIV - EQUIPMENT IB VERTICAL	.168 In/Sec	.062 G-s
EOH - EQUIPMENT OB HORIZONTAL	.126 In/Sec	.101 G-s
EOV - EQUIPMENT OB VERTICAL	.101 In/Sec	.071 G-s

6A	- SOUTH MINERAL OIL PUMP	(09-Dec-21)
OVERALL LEVEL 1 - 20 KHz		
MOH - MOTOR OB HORIZONTAL	.075 In/Sec	1.494 G-s
MOV - MOTOR OB VERTICAL	.074 In/Sec	.518 G-s
MIH - MOTOR IB HORIZONTAL	.087 In/Sec	1.141 G-s
MIV - MOTOR IB VERTICAL	.101 In/Sec	.220 G-s
MIA - MOTOR IB AXIAL	.061 In/Sec	.396 G-s
EIA - EQUIPMENT IB AXIAL	.088 In/Sec	.290 G-s
EIH - EQUIPMENT IB HORIZONTAL	.097 In/Sec	.902 G-s
EIV - EQUIPMENT IB VERTICAL	.156 In/Sec	.187 G-s
EOH - EQUIPMENT OB HORIZONTAL	.084 In/Sec	.512 G-s
EOV - EQUIPMENT OB VERTICAL	.122 In/Sec	.191 G-s

13F	- WEST OIL STRIPPER PUMP	(09-Dec-21)
OVERALL LEVEL 1 - 20 KHz		
MOH - MOTOR OB HORIZONTAL	.085 In/Sec	.279 G-s
MOV - MOTOR OB VERTICAL	.079 In/Sec	.075 G-s
MIH - MOTOR IB HORIZONTAL	.095 In/Sec	.502 G-s
MIV - MOTOR IB VERTICAL	.123 In/Sec	.389 G-s
MIA - MOTOR IB AXIAL	.067 In/Sec	.149 G-s
EIA - EQUIPMENT IB AXIAL	.278 In/Sec	.125 G-s
EIH - EQUIPMENT IB HORIZONTAL	.203 In/Sec	.499 G-s
EIV - EQUIPMENT IB VERTICAL	.243 In/Sec	.140 G-s
EOH - EQUIPMENT OB HORIZONTAL	.074 In/Sec	.737 G-s
EOV - EQUIPMENT OB VERTICAL	.097 In/Sec	.413 G-s

17A	- DTDC ROTARY PREP 2	(09-Dec-21)
OVERALL LEVEL 1 - 20 KHz		
MOH - MOTOR OB HORIZONTAL	.090 In/Sec	.041 G-s
MOV - MOTOR OB VERTICAL	.058 In/Sec	.021 G-s

MIH - MOTOR IB HORIZONTAL	.083 In/Sec	.158 G-s
MIV - MOTOR IB VERTICAL	.056 In/Sec	.022 G-s
MIA - MOTOR IB AXIAL	.066 In/Sec	.026 G-s
EIA - EQUIPMENT IB AXIAL	.028 In/Sec	.040 G-s
EIH - EQUIPMENT IB HORIZONTAL	.027 In/Sec	.140 G-s
EIV - EQUIPMENT IB VERTICAL	.036 In/Sec	.037 G-s
EOH - EQUIPMENT OB HORIZONTAL	.019 In/Sec	.034 G-s
EOV - EQUIPMENT OB VERTICAL	.023 In/Sec	.034 G-s

13B - EAST HYD DRIVE (09-Dec-21)

OVERALL LEVEL 1 - 20 KHz

MOH - MOTOR OB HORIZONTAL	.078 In/Sec	.347 G-s
MOV - MOTOR OB VERTICAL	.079 In/Sec	.063 G-s
MIH - MOTOR IB HORIZONTAL	.056 In/Sec	.526 G-s
MIV - MOTOR IB VERTICAL	.074 In/Sec	.074 G-s
MIA - MOTOR IB AXIAL	.132 In/Sec	.141 G-s
EIA - EQUIPMENT IB AXIAL	.173 In/Sec	.753 G-s
EIH - EQUIPMENT IB HORIZONTAL	.104 In/Sec	.884 G-s
EIV - EQUIPMENT IB VERTICAL	.090 In/Sec	.659 G-s
EOH - EQUIPMENT OB HORIZONTAL	.131 In/Sec	1.574 G-s
EOV - EQUIPMENT OB VERTICAL	.225 In/Sec	.529 G-s

22 - EXTRACTOR DRIVE (09-Dec-21)

OVERALL LEVEL 1 - 20 KHz

MOH - MOTOR OB HORIZONTAL	.114 In/Sec	.464 G-s
MOV - MOTOR OB VERTICAL	.067 In/Sec	.072 G-s
MIH - MOTOR IB HORIZONTAL	.086 In/Sec	.437 G-s
MIV - MOTOR IB VERTICAL	.066 In/Sec	.263 G-s
MIA - MOTOR IB AXIAL	.052 In/Sec	.457 G-s
EIA - GEARBOX 1 IB AXIAL	.076 In/Sec	.174 G-s
EIH - GEARBOX 1 IB HORIZONTAL	.059 In/Sec	.223 G-s
EIV - GEARBOX 1 IB VERTICAL	.074 In/Sec	.181 G-s
EOH - GEARBOX 1 OB HORIZONTAL	.051 In/Sec	.200 G-s
EOV - GEARBOX 1 OB VERTICAL	.045 In/Sec	.049 G-s

23 - EAST WEST FALIA (09-Dec-21)

OVERALL LEVEL 1 - 20 KHz

MOH - MOTOR OB HORIZONTAL	.326 In/Sec	.342 G-s
MOV - MOTOR OB VERTICAL	.422 In/Sec	.184 G-s
MIH - MOTOR IB HORIZONTAL	.135 In/Sec	.890 G-s
MIV - MOTOR IB VERTICAL	.217 In/Sec	.360 G-s
MIA - MOTOR IB AXIAL	.212 In/Sec	.328 G-s
EIA - EQUIPMENT IB AXIAL	.236 In/Sec	.508 G-s
EIH - EQUIPMENT IB HORIZONTAL	.165 In/Sec	.746 G-s

EIV - EQUIPMENT IB VERTICAL	.236 In/Sec	.329 G-s
EOH - EQUIPMENT OB HORIZONTAL	.290 In/Sec	.664 G-s
EOV - EQUIPMENT OB VERTICAL	.294 In/Sec	.216 G-s

9B - 3RD FLOOR MINERAL OIL PUMP (09-Dec-21)

OVERALL LEVEL 1 - 20 KHz

MOH - MOTOR OB HORIZONTAL	.120 In/Sec	.660 G-s
MOV - MOTOR OB VERTICAL	.121 In/Sec	.178 G-s
MIH - MOTOR IB HORIZONTAL	.137 In/Sec	.660 G-s
MIV - MOTOR IB VERTICAL	.121 In/Sec	.222 G-s
MIA - MOTOR IB AXIAL	.097 In/Sec	.318 G-s
EIA - EQUIPMENT IB AXIAL	.134 In/Sec	.261 G-s
EIH - EQUIPMENT IB HORIZONTAL	.158 In/Sec	.859 G-s
EIV - EQUIPMENT IB VERTICAL	.128 In/Sec	.353 G-s
EOH - EQUIPMENT OB HORIZONTAL	.087 In/Sec	.731 G-s
EOV - EQUIPMENT OB VERTICAL	.110 In/Sec	.137 G-s

Clarification Of Vibration Units:

Acc --> G-s RMS

Vel --> In/Sec PK

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

Sincerely,

Chris Senter

Reliability Specialist



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