

October 12, 2020

Arkema

Subject: October week 1 vibration service report

Most of the machines surveyed were found to be in good condition except for the following:

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.

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 Senior Reliability Specialists *Hi-Speed* Industrial Service dshook@gohispeed.com

> 7030 Ryburn Drive Millington, TN 38053 P. 901-873-5300 F. 901-873-5301

Weekly Peroxide Route Critical Equipment Observations

C Concentrator Vacuum Pump 2130-1

Vibrations appear to be normal this survey. No vibration is above 0.157"/sec velocity peak. No actions required.

Agitator, Hydrogenator C 7001-01

The highest motor overall vibrations are 0.185"/sec velocity peak for the inboard vertical. Data shows multiple lower frequency harmonics of shaft speed as well as non-synchronous peaks in the upper frequencies. The bearings and fits in the replacement motor could be in some distress. A vibration at near 3x RPM is dominant and could possibly indicate a coupling or alignment issue. **Motor is rated a Class I Defect.**

A/B Concentrator Vacuum Pump 57

This unit's motor vibration is still below 0.10"/sec velocity peak. The outboard pump bearing overall is 0.241"/sec peak velocity, with a dominant vibration at 16 orders, which is most likely blade pass. We will continue to watch for changes. **Rated a Class I Defect.**

Flash Vacuum Pump 2130-1

Vibrations appear to be normal this survey. All velocity measurements are below 0.10"/sec peak. No actions required.

Air Compressor C-201

Rotor bar vibrations are normal for this motor's history. The trend clearly shows that the vibrations vary considerably over time. We still believe these motors have possible weak rotor bar end connections that cause the vibrations to fluctuate higher due to loading. We will continue to monitor this unit for changes. **Rated a Class I Defect**. No actions required.

Air Compressor C-202

Rotor bar vibrations are normal for this motor's history. The trend clearly shows that the vibrations vary considerably over time. We are still watching an increase in acceleration for the compressor section. **Rated a Class I Defect**. No immediate actions required at this time.

Air Compressor C-203

Rotor bar vibrations are normal for this motor's history. The waterfall spectra clearly show that the vibrations vary considerably over time. We still believe these motors have possible weak rotor bar end connections that cause the vibrations to fluctuate higher due to loading. **Rated a Class I Defect**. No actions required.

Instrument Air Compressor

The male and female shaft vibrations still seem to show gear mesh and harmonics as well as a beat vibration occasionally. The male and female shaft vibrations are up to 6 g's RMS. The dominant vibration appears to be the second gear mesh harmonic at near 2500 Hz. Two other harmonic vibrations at near 1500 and 1600 Hz are beating near 120 Hz. The beat is strong sometimes since the vibrations are close and of nearly equal amplitude. We are still watching this unit closely and will be going forward. **Rated a Class I Defect for now.**

Air Compressor NASH A 201-08A

Highest vibration is still in the pump itself at just under 0.3"/sec velocity peak for the outboard vertical. The vibration spectrum is still dominated by a 20-order vibration, which is thought to be vane pass. **Rated a Class I Defect.**

D Hydrogenator Agitator 9002-10

Vibration data shows a decrease in vibrations this survey. Highest overall vibration is 0.280"/sec velocity peak for the gearbox top output bearing plate in the N/S direction. No issues today.

Monthly Service Units

ABC Sec Filter Feed Pump North 2130-6 and East Oxidizer Feed Pump 9001-1

Both units are showing slightly elevated pump vibrations at near 2.0"/sec velocity peak. Inspect for coupling and or alignment issues.

Abbreviated Last Measurement Summary

Database: Arkema.rbm Station: PEROXIDE Report Date: 12-Oct-20 07:53

MEASUREMENT POINT OVERALL LEVEL HFD / VHFD -----_____ _____ 7000-01 - AGITATOR, HYDROGENATOR C (06-Oct-20) OVERALL LEVEL 1-20 KHZ .042 In/Sec 02 - DRIVESHAFT BRG-EAST-WEST .088 G-s .046 In/Sec .094 In/Sec .113 In/Sec .068 G-s 03 - DRIVESHAFT BRG-VERTICAL 11 - C Hydro Agitator MOTOR OB HORIZ .690 G-s 12 - C Hydro Agitator MOTOR OB VERT .778 G-s .584 G-s .148 In/Sec 13 - C Hydro Agitator Motor OB Axial .119 In/Sec .383 G-s 21 - C Hydro Agitator MOTOR IB HORIZ 22 - C Hydro Agitator MOTOR IB VERT .185 In/Sec .411 G-s .185 In/Sec .177 In/Sec .095 In/Sec .095 In/Sec .055 In/Sec .047 In/Sec .020 In/Sec .042 In/Sec .045 In/Sec .043 In/Sec 1.088 G-s 23 - C Hydro Agitator Motor IB Axial - C Hydro Agitator GrBx In Horizon .636 G-s 31 - C Hydro Agitator GrBx In VERT 1.026 G-s 32 33 - C Hydro Agitator GrBx In Axial .581 G-s .752 G-s .480 G-s .491 G-s 41 - C Hydro GrBx shaft 2 Top HZ E-W - C Hydro GrBx shaft 2 BOT HZ E-W 42 51 - C Hydro GrBx OUTPUT TOP HZ E-W 52 - C Hydro GrBx OUTPUT BOT HZ E-W .324 G-s 53 - C Hydro GrBx OUTPUT Top Axial .523 G-s * 53L - C Hydro GrBx OUTPUT Top Axial .043 In/Sec .607 G-s 57 - A/B Concentr Vac Pmp-var RPM (06-Oct-20) 1-20 KHz OVERALL LEVEL .068 In/Sec .396 G-s 11 - Motor OB HOR .276 G-s 12 - Motor OB VERT .051 In/Sec .121 G-s .064 In/Sec 21 - Motor IB HOR .228 G-s .063 In/Sec 23 - Motor IB AXIAL 71 - Compressor IB HOR .134 In/Sec .551 G-s .241 In/Sec 81 - Compressor OB Horiz .759 G-s .090 In/Sec 83 - Compressor OB Axial 1.411 G-s 2130-1 - FLASH VAP VAC PUMP-var speed (06-Oct-20) OVERALL LEVEL 1-20 KHz 11 - Motor OB HOR .044 In/Sec .089 G-s 12 - Motor OB VERT .033 In/Sec .359 G-s 21 - Motor IB HOR .041 In/Sec .587 G-s .041 In/Sec 22 - Motor IB VERT .473 G-s 23 - Motor IB AXIAL .041 In/Sec .151 G-s 71 - Compressor IB HOR .058 In/Sec .310 G-s .339 G-s .071 In/Sec 72 - Compressor IB VERT .250 G-s .075 In/Sec 81 - Compressor OB Horiz - Compressor OB VERT .083 In/Sec .351 G-s 82 83 - Compressor OB Axial .069 In/Sec .227 G-s 236-06 - HYDRO FD PUMP N 236-06 -2FLR (06-Oct-20)

| | OVERALL LEVEL | 1-20 KHz |
|---|----------------------------|----------------------|
| 11 - Hydro Fd Pmp B No. Motor Top | .098 In/Sec | .254 G-s |
| 21 - Hydro Fd Pmp B No. Motor Bottom | .070 In/Sec | .171 G-s |
| | | |
| 2130-6 - ABC SEC FILT FEED PUMP-NORTH | | |
| | OVERALL LEVEL | 1-20 KHz |
| 11 - MOTOR OUTBOARD HORIZONTAL | .063 In/Sec | .260 G-s |
| 21 - MOTOR INBOARD HORIZONTAL | .073 In/Sec | |
| 23 - MOTOR INBOARD AXIAL | .085 In/Sec .178 In/Sec | .260 G-s |
| 71 - PUMP HORIZONTAL | .178 In/Sec | .804 G-s |
| 72 - PUMP VERTICAL | .105 In/Sec | 1.009 G-s |
| | | |
| 9001-1 - EAST OXIDIZER FEED PUMP | • • | |
| | OVERALL LEVEL | |
| 11 - MOTOR OUTBOARD HORIZONTAL | .036 In/Sec | .307 G-s |
| 21 - MOTOR INBOARD HORIZONTAL | .057 In/Sec | .466 G-s |
| 23 - MOTOR INBOARD AXIAL | .063 In/Sec | .083 G-s |
| 71 - PUMP HORIZONTAL | .191 In/Sec | |
| 72 - PUMP VERTICAL | .158 In/Sec | .280 G-s |
| | (0C 0-1 00) | |
| 9001-2 - MIDDLE OXIDIZER FEED PUMP | | 1 00 |
| | | 1-20 KHz |
| 11 - MOTOR OUTBOARD HORIZONTAL | .029 In/Sec | .454 G-s |
| 21 - MOTOR INBOARD HORIZONTAL | .033 In/Sec | |
| 23 - MOTOR INBOARD AXIAL | .044 In/Sec | .195 G-s |
| 71 - PUMP HORIZONTAL | .084 In/Sec | .232 G-s |
| 72 - PUMP VERTICAL | .077 In/Sec | .233 G-s |
| 7016-11 - WEST OXIDIZER FEED PUMP | (06-Oct-20) | |
| 7016-11 - WEST OXIDIZER FEED POMP | OVERALL LEVEL | 1 20 21- |
| 11 - MOTOR OUTBOARD HORIZONTAL | .024 In/Sec | .192 G-s |
| 21 - MOTOR INBOARD HORIZONTAL | .024 IN/Sec | .192 G-S .454 G-S |
| 23 - MOTOR INBOARD HORIZONIAL 23 - MOTOR INBOARD AXIAL | .021 In/Sec .016 In/Sec | .454 G-S .221 G-S |
| 71 - PUMP HORIZONTAL | .010 In/Sec | |
| 71 - POMP HORIZONIAL 72 - PUMP VERTICAL | .123 In/Sec | .976 G-s |
| 72 - POMP VERTICAL | .125 IN/Sec | .976 G-S |
| 234-01 - CHILL WATER PUMP 234-01 | (06-Oct-20) | |
| | OVERALL LEVEL | 1-20 KHz |
| 11 - Chilled H2O Pump Motor OB Horizo | .039 In/Sec | .822 G-s |
| | OVERALL LEVEL | 1-20 KHZ |
| 11L - MOTOR HORZ OUTBOARD - L-FREQ | .040 In/Sec | .900 G-s |
| k | OVERALL LEVEL | |
| 21 - Chilled H2O Pump Motor IB Horizo | .039 In/Sec | 1.052 G-s |
| 23 - MOTOR INBOARD | .034 In/Sec | |
| | OVERALL LEVEL | 1-20 кнг |
| 231 - MOTOR AXIAL INBOARD - L-FREQ | .037 In/Sec | .766 G-s |
| | OVERALL LEVEL | 1-20 KH7 |
| 71 - Chilled H2O Pump IB Horizontal | .075 In/Sec | .172 G-s |
| 72 - PUMP VERTICAL | .071 In/Sec | .246 G-s |
| | .0/1 111/000 | .240 0 5 |
| C-203 - C-203 Comp | (06-Oct-20) | |
| - | OVERALL LEVEL | 1-20 KHz |
| 11 - MOTOR OB HOR | .136 In/Sec | 5.045 G-s |
| 12 - MOTOR OB VERT | .104 In/Sec | |
| 21 - MOTOR IB HOR | .039 In/Sec | 1.369 G-s |
| 22 - MOTOR IB VERT | .058 In/Sec | 1.636 G-s |
| 23 - MOTOR IB AXIAL | .019 In/Sec | .415 G-s |
| | | |

| 71M - COMP MALE SHAFT IB HOR 72M - COMP MALE SHAFT IB VERT 73M - COMP MALE SHAFT IB AXIAL | OVERALL LEVEL | 1-20 кнг |
|---|------------------------------|-----------|
| 71M - COMP MALE SHAFT IB HOR | .036 In/Sec | 1.356 G-s |
| 72M - COMP MALE SHAFT IB VERT | .048 In/Sec | 1.736 G-s |
| 73M - COMP MALE SHAFT IB AXIAL | .051 In/Sec | 2.159 G-s |
| 81M - COMP MALE SHAFT OB HOR | 075 In/Sec | 2 672 G-s |
| 81M - COMP MALE SHAFT OB HOR 82M - COMP MALE SHAFT OB VERT 71F - COMP FEMALE SHAFT IB HOR 72F - COMP FEMALE SHAFT IB VERT | 078 Tn/Sec | 2.072 C S |
| 71F - COMP FEMALE SHAFT IB HOR | 055 Tn/Sec | 2 382 G-s |
| 72F - COMP FEMALE SHAFT IB VERT | 035 Tn/Sec | 571 G-s |
| 73F - COMP FEMALE SHAFT IB AXIAL | 062 Tn/Sec | 2 086 G-s |
| 73F - COMP FEMALE SHAFT IB AXIAL 81F - COMP FEMALE SHAFT OB HOR | .062 In/Sec .053 In/Sec | 1 304 G-s |
| 82F - COMP FEMALE SHAFT OB VERT | .054 In/Sec | 1.358 G-s |
| | .034 117,000 | 1.550 0 5 |
| 9000-01 - D HYDROGENATOR FD PUMP- WEST | (06-Oct-20) | |
| | OVERALL LEVEL | 1-20 KHz |
| 11 - MOTOR OUTBOARD HORIZONTAL | .030 In/Sec | |
| 21 - MOTOR INBOARD HORIZONTAL | .030 In/Sec | .273 G-s |
| 23 - MOTOR INBOARD AXIAL | .030 In/Sec .031 In/Sec | .436 G-s |
| 71 - PUMP HORIZONTAL | .072 In/Sec | .791 G-s |
| 11 - MOTOR OUTBOARD HORIZONTAL 21 - MOTOR INBOARD HORIZONTAL 23 - MOTOR INBOARD AXIAL 71 - PUMP HORIZONTAL 72 - PUMP VERTICAL | .050 In/Sec | .536 G-s |
| | | |
| 236-04A - HYDROGNTOR PRECOOLER FD PUMP | (06-Oct-20) | |
| | OVERALL LEVEL | 1-20 KHz |
| 11 - MOTOR OUTBOARD HORIZ | .052 In/Sec | .336 G-s |
| 21 - MOTOR INBOARD HORIZ | .068 In/Sec | .606 G-s |
| 23 - MOTOR INBOARD AXIAL | .032 In/Sec | .315 G-s |
| 71 - PUMP HORIXONTAL | .123 In/Sec | .273 G-s |
| 11 - MOTOR OUTBOARD HORIZ 21 - MOTOR INBOARD HORIZ 23 - MOTOR INBOARD AXIAL 71 - PUMP HORIXONTAL 72 - PUMP VERTICAL | .067 In/Sec | .219 G-s |
| | | |
| 72 - PUMP VERTICAL C-201 - C-201 Comp 11 - MOTOR OB HOR 12 - MOTOR OB VERT 21 - MOTOR IB HOR 22 - MOTOR IB VERT 23 - MOTOR IB AXIAL | (06-Oct-20) | |
| | OVERALL LEVEL | |
| 11 - MOTOR OB HOR | .129 In/Sec | 3.904 G-s |
| 12 - MOTOR OB VERT | .098 In/Sec .099 In/Sec | 1.553 G-s |
| 21 - MOTOR IB HOR | .099 In/Sec | 1.843 G-s |
| 22 - MOTOR IB VERT | .032 In/Sec | .383 G-s |
| 23 - MOTOR IB AXIAL | .053 In/Sec OVERALL LEVEL | .513 G-s |
| | OVERALL LEVEL | 1-20 KHZ |
| 71M - COMP MALE SHAFT IB HOR | .039 In/Sec | 1.092 G-s |
| 72M - COMP MALE SHAFT IB VERT | .062 In/Sec | 2.350 G-s |
| 73M - COMP MALE SHAFT IB AXIAL | .072 In/Sec | 3.038 G-s |
| 71M - COMP MALE SHAFT IB HOR 72M - COMP MALE SHAFT IB VERT 73M - COMP MALE SHAFT IB AXIAL 81M - COMP MALE SHAFT OB HOR 82M - COMP MALE SHAFT OB VERT 71F - COMP FEMALE SHAFT IB HOR 72F - COMP FEMALE SHAFT IB VERT 73E - COMP FEMALE SHAFT IB AXIAL | .066 In/Sec | 3.786 G-s |
| 82M - COMP MALE SHAFT OB VERT | .066 In/Sec | 2.538 G-s |
| 71F - COMP FEMALE SHAFT IB HOR | .056 In/Sec | 2.801 G-s |
| 72F - COMP FEMALE SHAFT IB VERT | .062 In/Sec | 1.983 G-s |
| 73F - COMP FEMALE SHAFT IB AXIAL | .0// 11/560 | 5.555 8 3 |
| 81F - COMP FEMALE SHAFT OB HOR | .074 In/Sec | 2.774 G-s |
| 82F - COMP FEMALE SHAFT OB VERT | .066 In/Sec | 2.392 G-s |
| | | |
| C-202 - C-202 Comp | (06-Oct-20) | |
| | OVERALL LEVEL | |
| 11 - MOTOR OB HOR | .033 In/Sec | .554 G-s |
| 12 - MOTOR OB VERT | .134 In/Sec | |
| 21 - MOTOR IB HOR | .140 In/Sec | 5.496 G-s |
| 22 - MOTOR IB VERT | .195 In/Sec | 6.739 G-s |
| 23 - MOTOR IB AXIAL | .059 In/Sec | 1.655 G-s |
| | OVERALL LEVEL | |
| 71M - COMP MALE SHAFT IB HOR | .034 In/Sec | 1.251 G-s |
| 72M - COMP MALE SHAFT IB VERT | .050 In/Sec | 1.482 G-s |
| | | |

73M - COMP MALE SHAFT IB AXIAL 81M - COMP MALE SHAFT OB HOR 82M - COMP MALE SHAFT OB VERT 71F - COMP FEMALE SHAFT IB HOR 72F - COMP FEMALE SHAFT IB VERT 73F - COMP FEMALE SHAFT IB AXIAL 81F - COMP FEMALE SHAFT OB HOR 81F - COMP FEMALE SHAFT OB HOR 82F - COMP FEMALE SHAFT OB VERT 201-08A - COMPRESSOR, NASH A 201-08A OVERALL LEVEL1-20 KHz11- Nash Compr A Motor OB Horiz.069 In/Sec.144 G-s12- Nash Compr A Motor OB Vertical.070 In/Sec.136 G-s13- Nash Compr A Motor OB Axial.153 In/Sec.095 G-s21- Nash Compr A Motor IB Horiz.073 In/Sec.107 G-s22- Nash Compr A Motor IB VERT.108 In/Sec.116 G-s23- Nash Compr A Motor IB AXIAL.158 In/Sec.131 G-s71- Nash Compr A COMP IB HORIZ.154 In/Sec.847 G-s72- Nash Compr A Compressor IB Verti.236 In/Sec.1133 G-s73- Nash Compr A COMP IB AXIAL.146 In/Sec.340 G-s81- Nash Compr A Compressor OB Verti.269 In/Sec.551 G-s83- Nash Compr A Compressor OB Axial.156 In/Sec.325 G-s 9002-10 - D-HYDROGENATOR AGITATOR 11 - MOTOR OUTBOARD HORIZONTAL 21 - MOTOR INBOARD HORIZONTAL 23 - MOTOR INBOARD AXIAL 31 - GEARBOX INPUT SHAFT -HORIZONTAL * 31L - GEARBOX INPUT SHAFT-N-S-LOW FRQ 51 - GEARBOX TOP PLATE- E-W * 51L - GEARBOX TOP PLATE E-W-LOW FRQ 52 - GEARBOX TOP PLATE- N-S * 52L - GEARBOX TOP PLATE N-S-LOW FRQ 53 - GEARBOX OUTPUT TOP -VERTICAL 61 - GEARBOX BOTTOM E-W-HORIZONTAL * 61L - GEARBOX BOTTOM-E-W-LOW FRQ 81 - AGIT INTERMED BRG @ SEAL- N-S 82 - AGIT INTERMED BRG @ SEAL- E-W 83 - AGIT INTERMED BRG @ SEAL- VERT new AC - INSTRUMENT AIR COMPRESSOR 11 - MOTOR OB HOR 12 - MOTOR OB VERT 13 - MOTOR OB AXIAL 21 - MOTOR IB HOR 22 - MOTOR IB VERT

.081 In/Sec 2.206 G-s .063 In/Sec 3.995 G-s .050 In/Sec 1.564 G-s .036 In/Sec 2.281 G-s .058 In/Sec 1.238 G-s .097 In/Sec 4.424 G-s .053 In/Sec 5.853 G-s .054 In/Sec 1.807 G-s (06-Oct-20) OVERALL LEVEL 1-20 KHz (06-Oct-20) OVERALL LEVEL 1-20 KHz .084 In/Sec .075 In/Sec .046 In/Sec .111 G-s .091 G-s .058 G-s .580 G-s .189 In/Sec OVERALL LEVEL 1-20 KHZ .197 In/Sec .645 G-s .197 In/Sec .645 G-s 1-20 KHz .233 G-s OVERALL LEVEL .252 In/Sec .233 G-s

 .252 In/Sec
 .233 G-s

 OVERALL LEVEL
 1-20 KHZ

 .197 In/Sec
 .141 G-s

 OVERALL LEVEL
 1-20 KHZ

 .280 In/Sec
 .433 G-s

 OVERALL LEVEL
 1-20 KHZ

 .246 In/Sec
 .262 G-s

 OVERALL LEVEL
 1-20 KHZ

 .162 In/Sec
 .559 G-s

 .107 In/Sec
 .151 G-s

 OVERALL LEVEL
 1-20 KHZ

 OVERALL LEVEL 1-20 KHZ .322 In/Sec .120 G-s .120 G-s OVERALL LEVEL 1-20 KHz .037 In/Sec .024 G-s .045 In/Sec .024 G-s .044 In/Sec .149 G-s (06-Oct-20)
 OVERALL LEVEL
 1-20 KHz

 .159 In/Sec
 1.381 G-s

 .107 In/Sec
 .594 G-s

 .107 In/Sec
 .594 G-s

 .066 In/Sec
 .475 G-s

 .152 In/Sec
 1.351 G-s

 .090 In/Sec
 .443 G-s

| 71M - COMP MALE SHAFT IB HOR 72M - COMP MALE SHAFT IB VERT | OVERALL LEVEL | |
|---|---------------|-----------|
| | 106 Tr/Sec | |
| 70M COMP MALE CHARM TO MEDM | .100 11/360 | 4.810 G-s |
| 72M - COMP MALE SHAFT IB VERT | .173 In/Sec | 6.473 G-s |
| 73M - COMP MALE SHAFT IB AXIAL | .148 In/Sec | 3.763 G-s |
| 81M - COMP MALE SHAFT OB HOR | .199 In/Sec | 3.307 G-s |
| 82M - COMP MALE SHAFT OB VERT | .259 In/Sec | 6.506 G-s |
| 83M - COMP MALE SHAFT OB AXIAL | .273 In/Sec | 4.311 G-s |
| 71F - COMP FEMALE SHAFT IB HOR | .162 In/Sec | 6.366 G-s |
| 72F - COMP FEMALE SHAFT IB VERT | .149 In/Sec | 2.790 G-s |
| 73F - COMP FEMALE SHAFT IB AXIAL | .167 In/Sec | 3.675 G-s |
| 81F - COMP FEMALE SHAFT OB HOR | .131 In/Sec | 2.189 G-s |
| 82F - COMP FEMALE SHAFT OB VERT | .235 In/Sec | 5.105 G-s |
| 83F - COMP FEMALE SHAFT OB AXIAL | .164 In/Sec | 3.658 G-s |
| 0120 1.11 0.0 | (0C 0-1 00) | |
| 2130-1old - C Concentrator Vacuum Pump | | 1 00 |
| | OVERALL LEVEL | |
| 11 - Motor OB HOR | .061 In/Sec | |
| 21 - Motor IB HOR | .063 In/Sec | .435 G-s |
| 23 - Motor IB AXIAL | .112 In/Sec | |
| 71 - Compressor IB HOR | .100 In/Sec | 1.187 G-s |
| 81 - Compressor OB Horiz | .157 In/Sec | .661 G-s |
| 83 - Compressor OB Axial | .077 In/Sec | 1.393 G-s |

Clarification Of Vibration Units: Acc --> G-s PK

Vel --> In/Sec PK

* - Indicates Data Has Date/Time Different From Machine Date/Time