



QualiTest® Diagnostics

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December 1, 2023

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Louis Dreyfus Co.
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The following is a summary of findings from the Annual Vibration Analysis that was performed on November 30, 2023 on BE-705 and Take Up Gear Drives.

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.

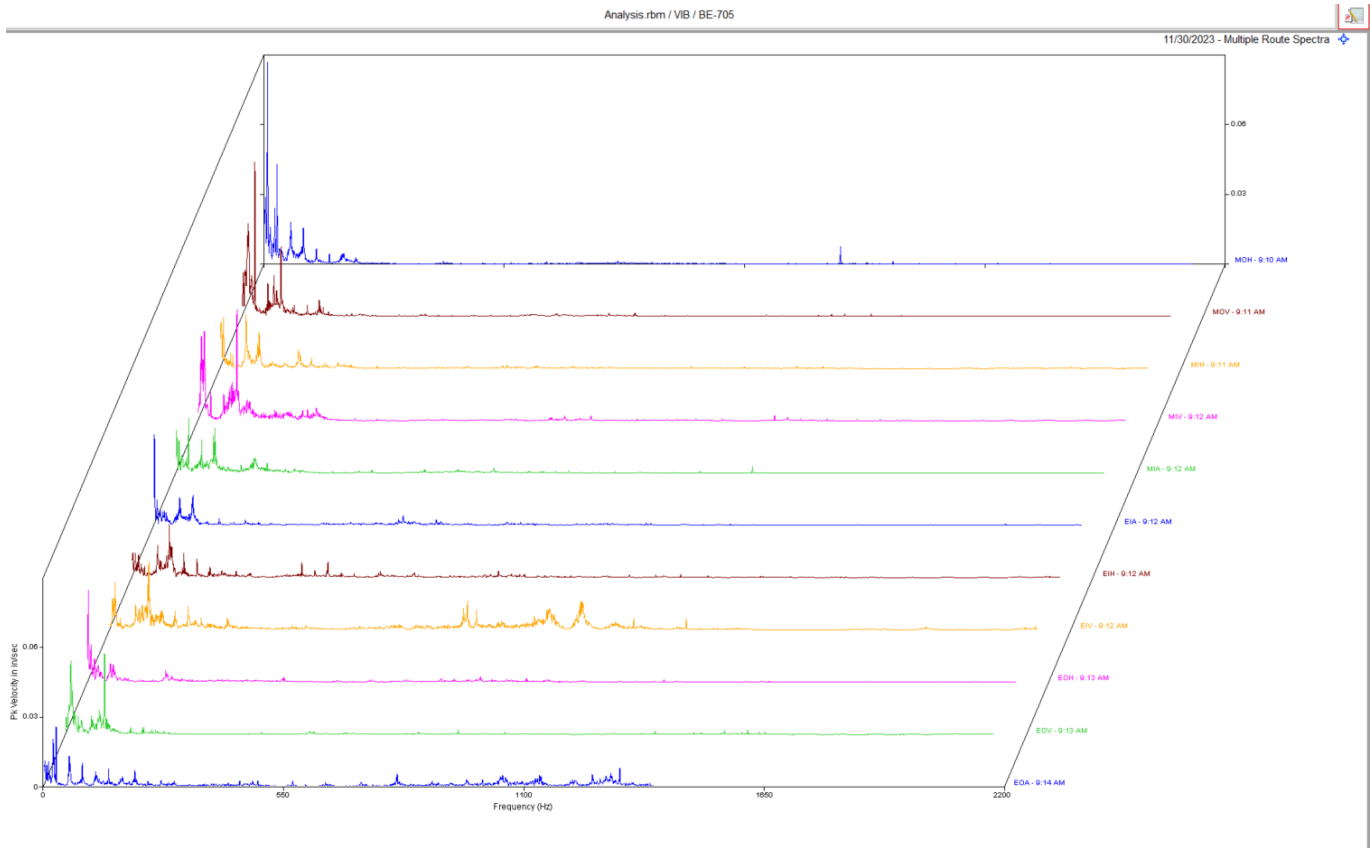
CLASS III: Defect (s) present that may cause failure in short term (less than 2 months). This should be addressed as soon as practical, with a high maintenance priority. Increase monitoring frequency.

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.

Data Summary

BE-705



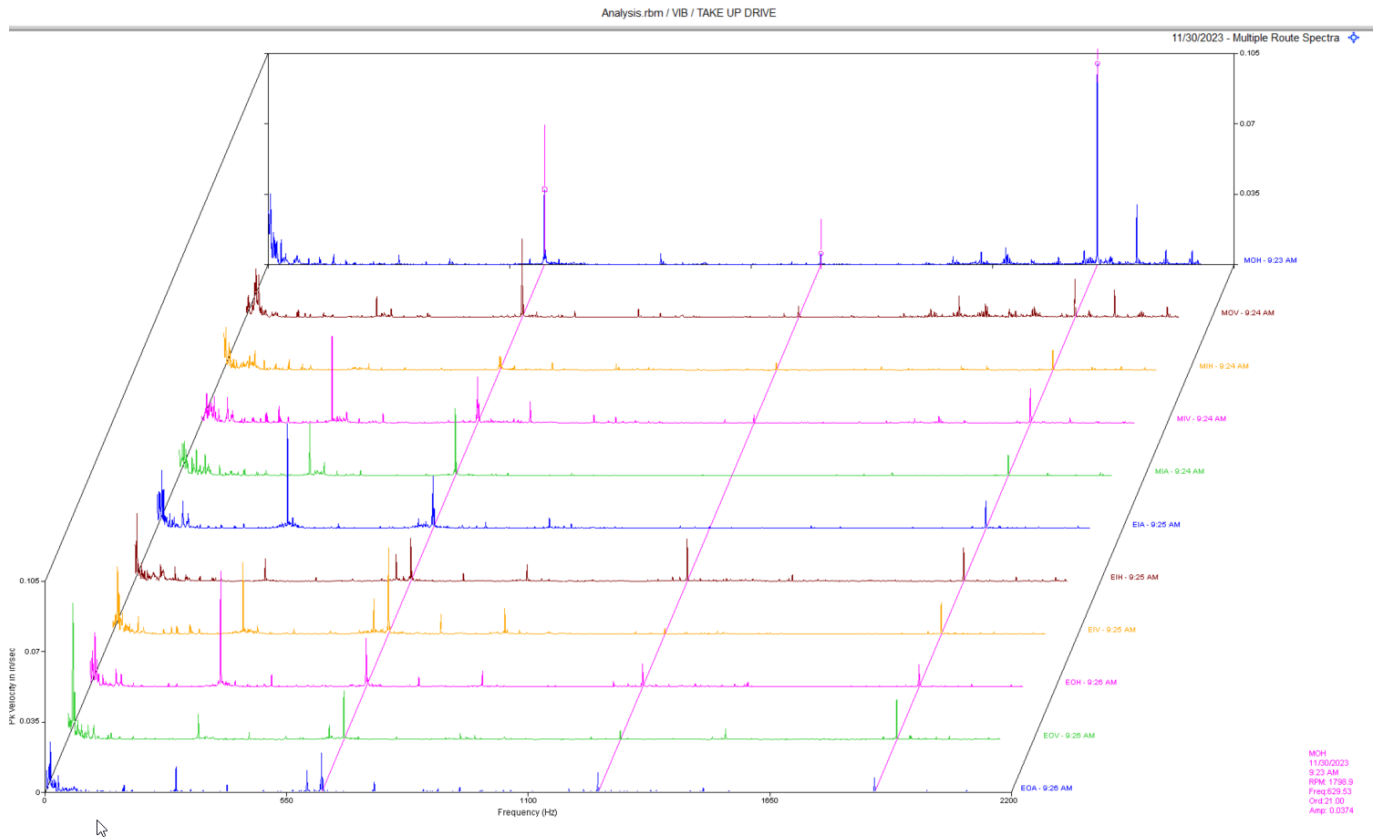
Observation:

Data above is a multipoint spectral waterfall of the motor and gearbox. Vibration levels appear to be within normal limits.

Recommendation:

None at this time. Continue to monitor as normal.

Take Up Drive



Observation:

Data above is a multi-point waterfall of the motor and gearbox. Motor data shows some harmonics of 21 orders of rpm present while gearbox data shows some gear mesh frequencies present. Amplitudes are not very high according to the baseline data.

Recommendation:

There appears to be some electrically related vibrations in the motor. Amplitudes are low and this is baseline data, so severity is unclear here. Gearbox also has some low-level gear mesh vibration. No actions are recommended at this time. Continue to monitor as normal.

Abbreviated Last Measurement Summary

Area: Louis Dreyfus
Route No. 1: Geardrives

| MEASUREMENT POINT | OVERALL LEVEL | HFD / VHFD |
|-------------------|---------------|-------------|
| ----- | ----- | ----- |
| BE-705 - BE-705 | | (30-Nov-23) |
| | OVERALL LEVEL | 1K-20KHz |
| MOH | .132 In/Sec | .168 G-s |
| MOV | .133 In/Sec | .124 G-s |
| MIH | .073 In/Sec | .194 G-s |
| MIV | .129 In/Sec | .280 G-s |
| MIA | .068 In/Sec | .131 G-s |
| EIA | .065 In/Sec | .193 G-s |
| EIH | .069 In/Sec | .352 G-s |
| EIV | .109 In/Sec | .623 G-s |
| EOH | .067 In/Sec | .178 G-s |
| EOV | .086 In/Sec | .266 G-s |
| EOA | .076 In/Sec | .487 G-s |

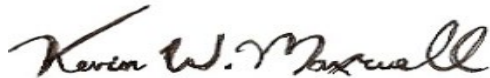
| | | |
|----------------------------|---------------|-------------|
| TAKEUPDRVE - TAKE UP DRIVE | | (30-Nov-23) |
| | OVERALL LEVEL | 1K-20KHz |
| MOH | .141 In/Sec | 2.751 G-s |
| MOV | .079 In/Sec | 1.033 G-s |
| MIH | .051 In/Sec | 1.467 G-s |
| MIV | .073 In/Sec | 2.122 G-s |
| MIA | .068 In/Sec | 2.383 G-s |
| EIA | .087 In/Sec | 1.168 G-s |
| EIH | .067 In/Sec | 1.118 G-s |
| EIV | .088 In/Sec | .830 G-s |
| EOH | .082 In/Sec | .509 G-s |
| EOV | .109 In/Sec | .720 G-s |
| EOA | .055 In/Sec | .398 G-s |

Clarification Of Vibration Units:

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

As always, it has been a pleasure to serve The Louis Dreyfus Co. 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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