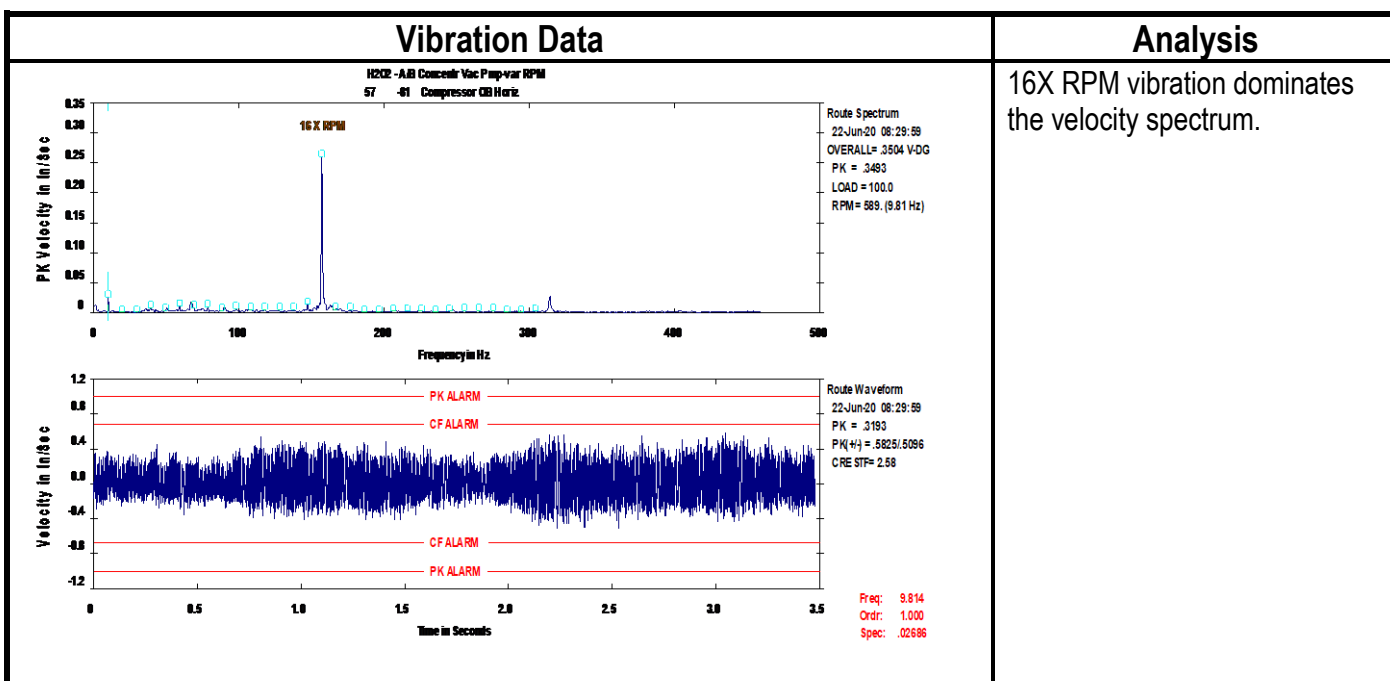
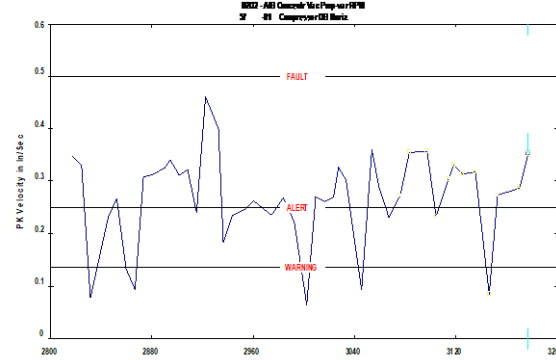




Client	ARKEMA	Survey Date	6-22-2020
Location	Memphis, TN	Report Date	6-22-2020
Machine	A/B Concentrator Vacuum Pump	QMS No.	142543
Component	Pump	Analyst	DWS

Defect Rating for this machine	Class II
Defect Rating System	
Class I: Defect is present, but effect on reliability is not clear; no immediate action is required. Continue normal monitoring.	Class III: Defect (s) present that may cause failure in short term (less than 2 mos.). Should be addressed as soon as practical, with a high maintenance priority. Increase monitoring frequency.
Class II: Defect (s) present that may cause problem in long term (2-6 mos.). Repair during normal maintenance scheduling. Continue to monitor.	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.

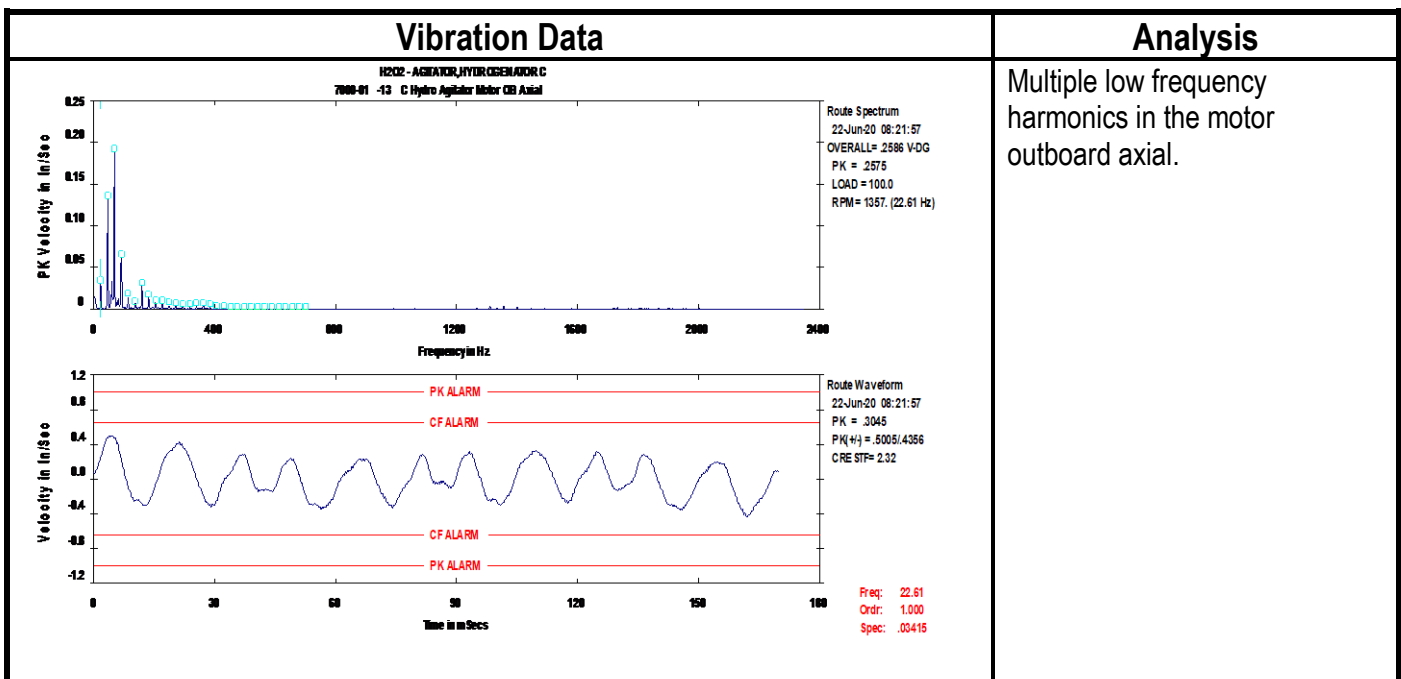


Discussion / Repair recommendations	Trend Data
<p>A/B Concentrator Vacuum Pump 57</p> <p>Water is back on the pump unit this month. The outboard bearing horizontal vibration has jumped back up to 0.350"/sec velocity peak overall. The vibration is dominated by a 16-order peak, which is most likely vane pass. Rated a Class II Defect.</p>	 <p>Trend Display of Overall Value</p> <p>- Deviation - Value: 0.975 Date: 03-Apr-20</p> <p>Days: 11-Oct-11 to 22-Jun-20</p> <p>Date: 23-Jun-20 Time: 08:30:00 Ampl: .350</p>



Client	ARKEMA	Survey Date	6-22-2020
Location	Memphis, TN	Report Date	6-22-2020
Machine	Agitator, Hydrogenator C 7001-01	QMS No.	142543
Component		Analyst	DWS

Defect Rating for this machine	Class II
Defect Rating System	
Class I: Defect is present, but effect on reliability is not clear; no immediate action is required. Continue normal monitoring.	Class III: Defect (s) present that may cause failure in short term (less than 2 mos.). Should be addressed as soon as practical, with a high maintenance priority. Increase monitoring frequency.
Class II: Defect (s) present that may cause problem in long term (2-6 mos.). Repair during normal maintenance scheduling. Continue to monitor.	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.



Discussion / Repair recommendations	Trend Data
<p>The highest motor overall is 0.259"/sec velocity peak for the outboard axial vibration. The motor speed today was read from the data to be about 1,357 RPM. Data shows multiple harmonics of shaft speed. The bearings and fits in the replacement motor could be in some distress. Other issues could be loose fasteners, cocked bearings, bowed rotor or a coupling and alignment issue. Inspect the base bolts for proper torque. Motor is rated a Class II Defect.</p>	