

Equipment Vibration Report

Plant: 26 – FROTH TREATMENT
Tag No.: 26-GM-2201A
Name: NRU STRIPPER BOTTOMS PUMP
(MOTOR)

Date: July 11, 2016
Purpose: Comm. Startup
Inspector/Analyst: Ryan Eastcott

Summary:

- SKF performed vibration test on 26-GM-2201A.
- Vibration readings were taken on the coupled motor.
- The speed of the motor was 900 RPM during the measurement period.
- All vibration readings were uploaded into the SKF @ptitude Analyst database to maintain history for future analysis.

Observations / Background / Inspection:

- The vibration readings were taken on the coupled motor at 11:02 AM July 7, 2016.
- The overall velocity (max. 0.134 in/s) is slightly higher than the acceptable range based on the ISO standard.
- There is presence of an unknown peak at 1590 CPM. From the sheave diameters (Motor: 12.5 in, Pump 53 in), the calculated pump speed is 212 CPM for a motor speed of 900 CPM. The speed shown in @ptitude Analyst is 172 CPM.
- At this stage, in order to identify this unknown peak, another set of readings needs to be taken with the exact pump running speed.
- For low speeds, it is recommended to place a reflecting tape on the pump shaft in order to collect the accurate speed. Please provide the pump number of vanes as well.
- It is also recommended to identify the surrounding equipment and their respective running speeds during the measurement period.

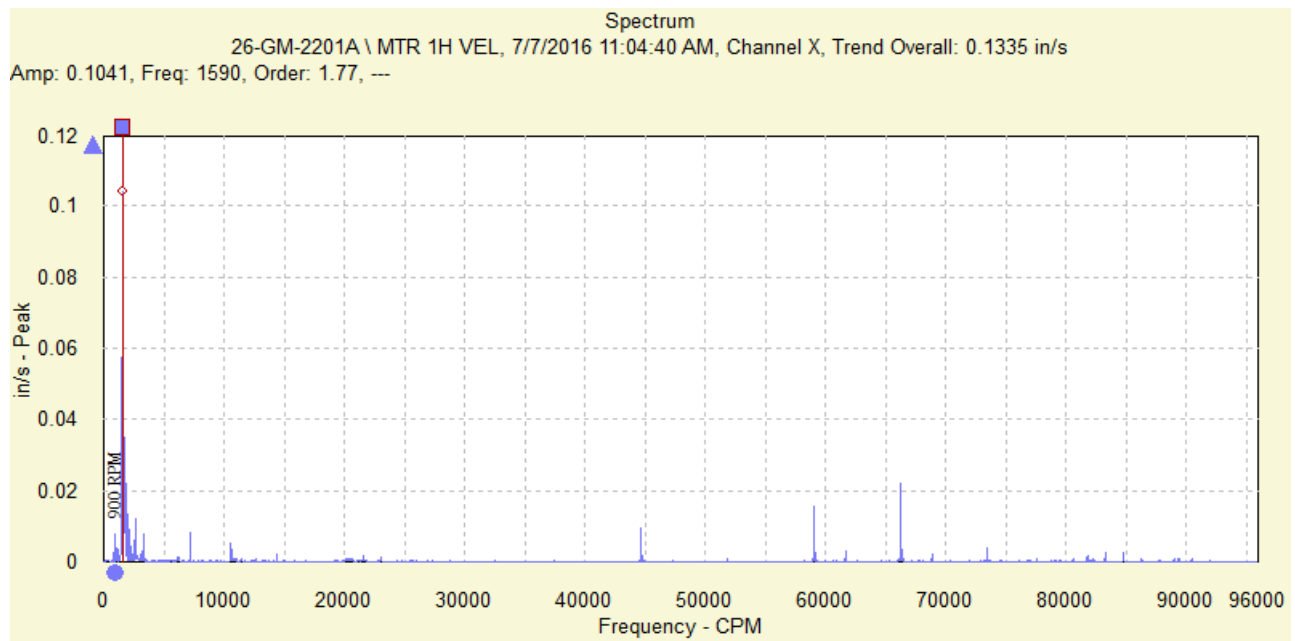


Figure 1: Velocity Spectrum for 26-GM-2201A, NDE side

Note: The vibration measurements were carried out using an SKF Microlog Analyzer, Model CMXA80, conforming to ISO 2954. The calibration certificate of the instrument can be seen upon request.