

# Machine Condition Report

Report Date: 11-Nov-2002

**Location:** Heat Treat

**Equipment:** PUMP A ALFE A Quench Pump Basement

Problem Severity:

**Serious**

**Diagnosis:** Pump cavitation

**Initial Report:** 08-May-2002

**Explanation & Recommended Action:**

08-May-02 Pump vibration readings have increased substantially since the last survey. The frequency and waveform plots indicate that pump cavitation is the cause of the increase. The pump is also noisy (sounds like pea gravel in the pump).

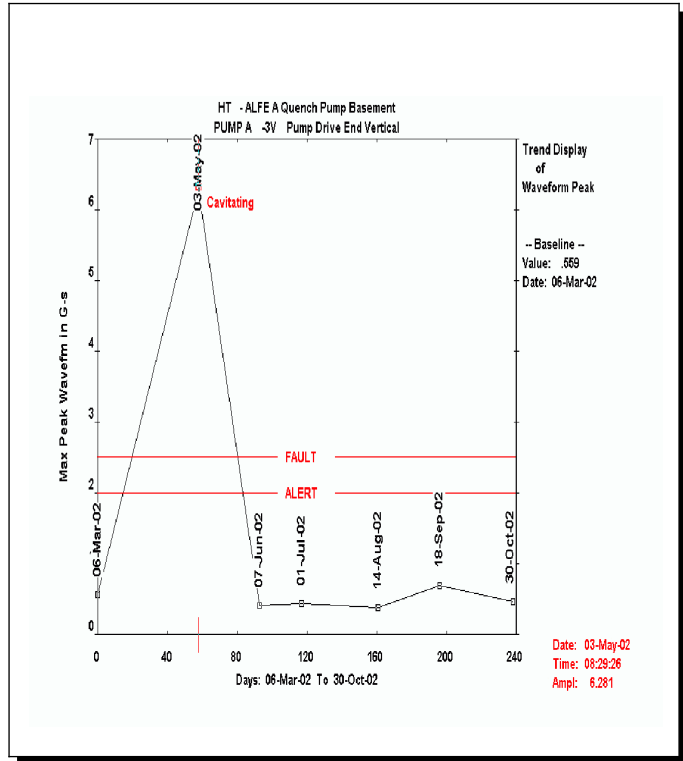
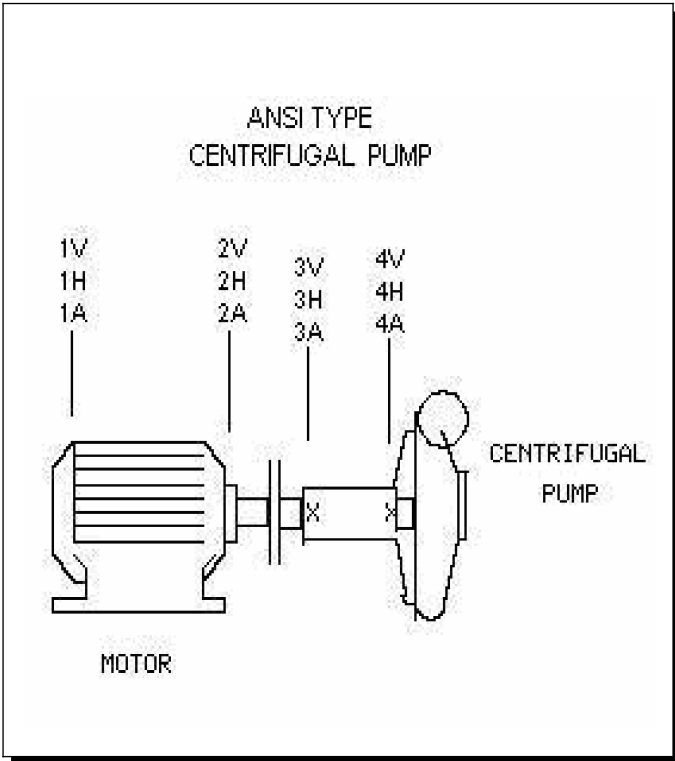
**Status:** Closed

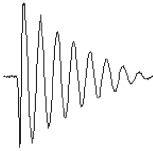
**Analyst:** Tom Spettel

**Date Closed:** 11-Nov-2002

Recommend reviewing the NPSH requirements.

07-Jun-02 Pump vibration is normal. No indication of cavitation. The water level in the quench tank was too low and the water temperature was higher than normal due to reduced water volume. This combination resulted in a decrease in NPSH available.





# Machine Condition Report

Report Date: 11-Nov-2002

