Chapter 17

Vibration Analysis

Chapter Objectives

When you have finished Chapter 17, "Vibration Analysis," you should be able to do the following:

- 1. Understand the difference between acceleration, velocity, and displacement in relation to vibration analysis.
- 2. List the four key steps in a vibration analysis process.
- 3. Describe the relationship between time waveform and frequency spectrum.
- 4. List the three components used to measure vibration.
- 5. Identify five common faults and know their characteristics.
- 6. Understand the frequency spectrum analysis.
- 7. Comprehend the applications of vibration analysis.