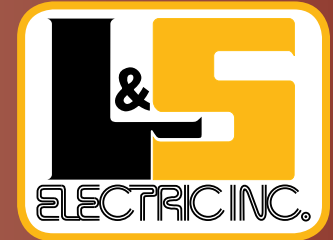


Sound Level Analysis



Dedicated People, Quality
Products, and Above All, Service.

Sound is simply vibrations traveling through air. Analyzing sound using a microphone, rather than a vibration transducer, helps obtain vital information about the condition of a piece of equipment.

Although the sound level analysis testing is easier than vibration analysis, it is a step removed from the source of trouble. However, sound level analysis should play a role in a comprehensive predictive maintenance program.

By itself, sound does not represent a piece of equipment is beginning to fail. Tracing the sound to a particular point and comparing it to the normal sound level will help establish an accurate diagnosis. Any person familiar with the apparatus may be able to detect a change in noise level of that equipment, but measuring the sound using instruments will help quantify any changes over time.



Frequency measurement devices accurately diagnose sound. For example, a wear problem may be indicated if the amplitude of a gear mesh increases in frequency. Bearing failure generates a distinctive frequency along with specific signals indicating problems.

Knowing the frequency derived from their sources assists with analysis in regards to reflecting, absorbing, or circulating the energy of the sound wave. Knowing the location of the sound source in relation to the geometry of the area helps rendering an accurate sound level analysis.



www.lselectric.com

SCHOFIELD

715.359.3155 or 800.283.8332

DULUTH

218.729.3375 or 800.943.9549

APPLETON

920.730.0203 or 800.283.5564

MENOMINEE

906.864.2500 or 800.864.2507

STURTEVANT

262.886.1875 or 800.367.7676

MINNEAPOLIS

763.780.3234 or 800.290.9320

ROTHSCHILD

715.359.4860 or 888.246.1249

HYDRO SOLUTIONS

715.359.0551 or 877.258.5128