



VIBRATION ANALYSIS SERVICES

WHAT IS VIBRATION ANALYSIS?

Vibration Analysis is a major part of predictive machine maintenance programs and over the years has proven to be the most effective method for checking “machinery health “. Vibration Analyzer help us to predict the machine failures. When predictive maintenance is applied and the machines are checked regularly, machine faults can be discovered at an early stage and appropriate action can be taken. By doing so you can avoid unexpected machine shutdowns and you can prevent replacement of parts which are still in good condition.

WHY TO OPT GULF TEST?

GULF TEST is accredited Third Party Inspection Body extending its Third Party Services in the field of Vibration Analysis. Gulf Test is an active member of Vibration Institute, USA and has Vibration Analysts Certified from Mobius Institute, Australia.

Gulf Test offers Vibration Analysis Services in areas mentioned below but not limited to –

- ✓ Chilled Water Pumps installed in various Hotels, Residential and Commercial Buildings
- ✓ Critical Rotating Parts and Motors of Machines installed in Factories
- ✓ Crane’s Motors and Gearboxes
- ✓ Generators, Air Compressors, Engines, Gear Box, Fans, Shaft, Mixers and Dryers
- ✓ Refrigeration Compressors, Lube Oil Pumps, Hot Water Circulation Pumps
- ✓ Vacuum Pumps
- ✓ Air Blowers



GULF TEST SAFETY CONSULTANCIES

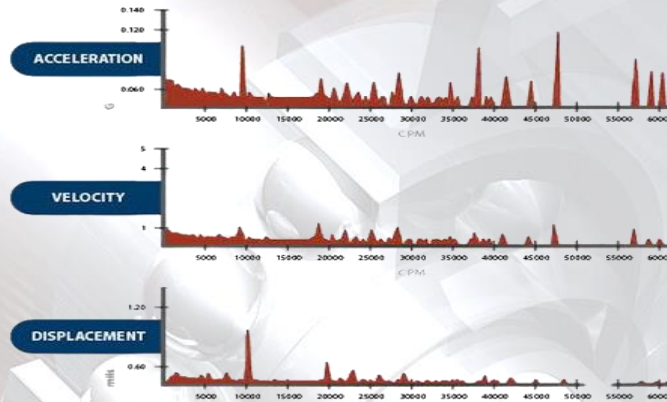
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HOW DOES IT WORK?

Running machines generate vibrations, which contain a lot of information about their condition. Gulf Test uses **Vibration analyzer with advance wireless technique** to measure this vibration. The sensor needs to be mounted on an appropriate point on the machine (e.g. bearing housing). The instrument measures the vibration signal and convert it in the form of time waveforms and Spectrums.



Our Engineers analyze these spectrums and issue the detailed report notifying the severity of the vibrations, possible machine faults with recommended corrective actions.



BENEFITS OF VIBRATION ANALYSIS

- ✓ Diagnosis of equipment imbalance
- ✓ Identification of misalignment condition
- ✓ Determining Mechanical looseness condition
- ✓ Identifying Drive Belt problems
- ✓ Identifying Bearing Element defects
- ✓ Gearbox Analysis for Gear Tooth Wear, Gear Misalignment
- ✓ Determining Motor Rotor Bars problem



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