

VIBRATION ANALYSIS OF CRITICAL MOTOR

JEEVAN P GEORGE¹, BIJU CHERIAN ABRAHAM², JOEJU M ISSAC³ & ISSAC THAMPAN⁴

¹P. G. Scholar, Department of Mechanical Engineering, Mar Athanasius College of Engineering,
Kothamangalam, Kerala, India

^{2,4}Assistant Professor, Department of Mechanical Engineering, Mar Athanasius College of Engineering,
Kothamangalam, Kerala, India

³Associate Professor, Department of Mechanical Engineering, Mar Athanasius College of Engineering,
Kothamangalam, Kerala, India

ABSTRACT

A refinery is a production facility composed of a group of chemical engineering unit processes and unit operations refining certain materials or converting raw material into products of value. To achieving this, all the machineries such as motors, pumps, compressors, fans... etc need to be properly maintained. The underperformance shown by a critical motor has been analysed by the condition monitoring. The major contributors which cause the problem have been identified and solutions were given to overcome the problem and it could be able to run as efficiently.

KEYWORDS: Vibration Spectrum Analysis, Condition Monitoring