

Roger Smith

Roger is a Mechanical Engineer with a wealth of hands on experience of machinery fault diagnosis and asset reliability improvement and a deep knowledge of rotating machinery and vibration analysis. His experience has been gained during 34 years' service in a wide variety of industries both within the UK and worldwide. Roger's enthusiasm is such that he can't be persuaded to give it up! He has a very straightforward and natural way of communicating, both with clients and also with less experienced engineers. His communication skills together with his manner and his experience make him an ideal mentor.

Key Skills

1. Vibration data acquisition, analysis and interpretation.
2. Good understanding and 1st hand experience of other CM techniques: performance measurement, thermography, oil analysis, ultrasound.
3. Trouble-shooting machinery vibration and reliability problems.
4. Analysis of large and/or high speed turbo-machinery with multi-channel simultaneous data acquisition systems (ADRE, Zonic etc.)
5. Dynamic balancing of rotating equipment.
6. Use of vibration Isolation and vibration absorbers.
7. The set-up and management of Predictive Maintenance programs.
8. Specification and development of machinery condition monitoring (CM) techniques and reporting methods.
9. Mentoring and development of condition monitoring staff.
10. Shop machinery inspection, supervision of machinery installation and overhauls.
11. Development of machinery reliability improvement and repair quality improvement programmes.

Education, Certification

HNC Mechanical Engineering

Equipment & Software used

Products; ADRE, Zonic Book, Beran Systems 766, Microlog, IRD890, CSI 2120, twin channel signal analysers & oscilloscopes. FLIR Thermal Imaging cameras.

Software; ADRE, EzTomas @ptitude, Prism4 / Prism2 Odyssey, RBMWare.