ATTRITION CELL GEARED MOTORS





• INCREASED EQUIPMENT PRODUCTIVITY, REDUCED MAINTENANCE & UNPLANNED DOWNTIME

Mineral Processing & Quarrying -Oil Condition Monitoring

The Challenge

At one of the UK's largest sand producers, the critical Attrition Cell geared motors have traditionally been monitored using vibration and oil sampling scheduled maintenance tasks.

However, due to the inherent high levels of vibration experienced by these motors during normal operating conditions, it was proving very difficult to determine the exact condition of the drives at any point in time. The result was, at best, inaccurate information and at worst, missed critical events.

Solution

Eight Tan Delta Oil Quality Sensors (OQSx) were installed and linked into the local PLC units. By setting predetermined warning levels the system will automatically trigger alarms around the site ensuring that potential issues are identified as and when they occur.

Benefits

The organisation now has peace of mind that all critical equipment is being monitored 24 hours a day 7 days a week. Thanks to the robust and reliable design, the team on-site can be confident that the data they receive is both detailed and accurate allowing them to make informed decisions and optimise resources.

COMMERCIAL BENEFIT

The organisation has now adopted a condition based monitoring maintenance schedule, and is saving £109K per annum when compared with their previous preventative maintenance approach.

HIGHLIGHTS

A 'Complete' Solution

Oil Quality Sensors (OQSx) fitted throughout every site.

Regular Status Updates

Continuously monitor the overall oil condition on key equipment.

Detailed Analysis

Real-time, accurate and detailed information now readily available to on-site team.

Cost Effective

Cost of maintenance significantly reduced and unplanned downtime eradicated.





Service and Support from Tan Delta

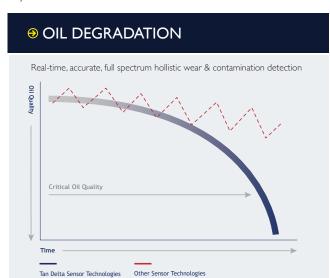
The Tan Delta Customer Support team partners with customers to implement highly effective and commercially beneficial projects. Our experience and expertise enable customers to quickly and smoothly implement successful oil condition monitoring.

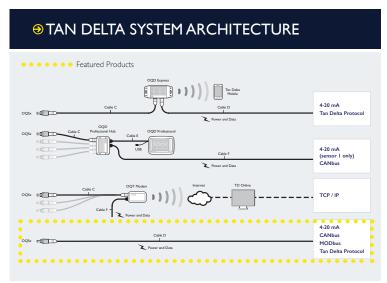
- \varTheta The evaluation and identification of the commercial benefits that will be derived from the implementation of Tan Delta Full Spectrum Holistic (FSH™) real time oil condition monitoring.
- \varTheta Support for the planning and efficient implementation of systems across large estates of equipment, including the integration into existing monitoring systems and operational procedures.
- \varTheta Ongoing 24/7 global warranty support, technical support, advice and consultancy to ensure customers maximise the long term benefits of their investment in oil condition monitoring.

Technology That Makes a Difference

Tan Delta core technologies deliver unique oil condition monitoring performance that directly translates into significantly enhanced commercial benefits.

Tan Delta technology uniquely offers FSH™ oil condition monitoring in real time to a very high degree of accuracy. This ensures that any contamination and or wear, no matter the cause, is detected, quantitified and reported in real-time. Nothing is missed.





About Tan Delta Systems

Tan Delta Systems Limited is a global leader in the development and supply of advanced oil condition monitoring technologies, products and systems.

Its products are trusted by the world's leading industrial and commercial companies to monitor oil condition, helping to optimise equipment productivity, reduce operating costs, thereby remaining competitive in a global economy.

All Tan Delta products are engineered and quality manufactured for long term continuous operation in the harshest commercial and industrial environments. Each product is carefully engineered and tested to withstand the long term effects of extreme shock, vibration, heat, cold, thermal shock, electrical interference and many more factors.

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