CASTROL PREDICT
MACHINE CONDITION MONITORING

INSIGHT
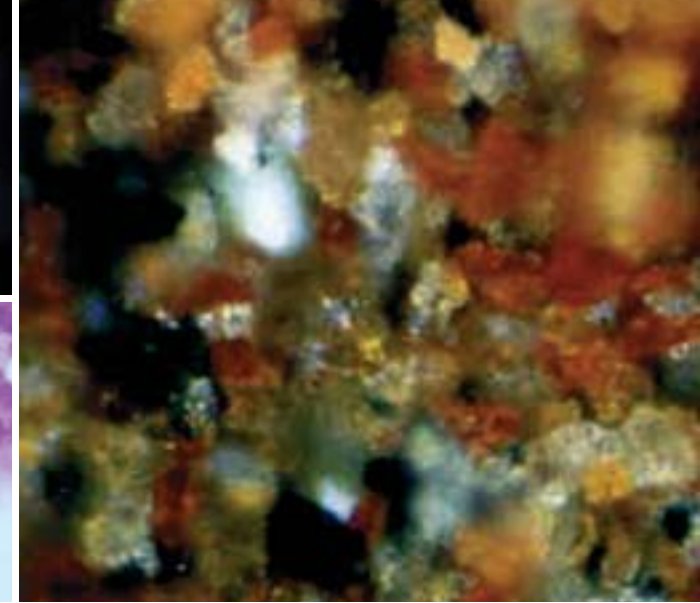
YOUR ADVANTAGE IN AN INDUSTRIAL WORLD

Castrol

CASTROL PREDICT PINPOINTS COMPONENT FAILURES FIRST

If profitability is key to manufacturing success, one of its keys is machine reliability. Machines are designed to run at optimum levels to produce maximum volume. But no machine runs forever and breakdown is inevitable. Whilst maintenance forecasting is critical, its accuracy is crucial.

Unlike traditional used oil analysis with its incomplete wear metals profile and limited information on machine condition, Castrol Predict is a wear particle analysis service that uses analytical ferrography to determine the exact nature of all particles present. So you can act promptly to avoid breakdowns or unplanned maintenance and maintain optimum profitability.

By monitoring many different indicators, sampling provides accurate condition trending, providing the earliest warning of potential component failure in oil lubricated machinery and pinpointing specific failing components.

CASTROL PREDICT

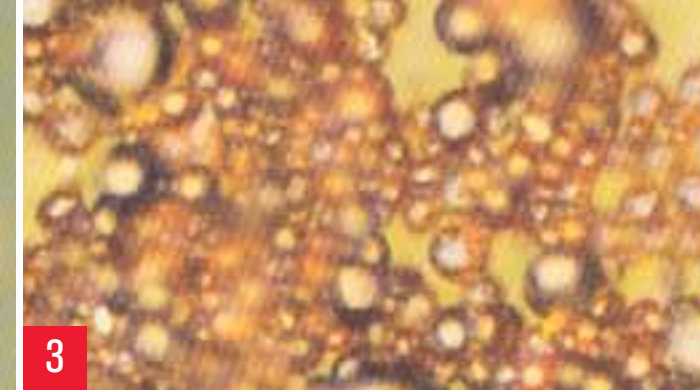MACHINE CONDITION MONITORING

ANALYTICAL FERROGRAPHY

CASTROL PREDICT MAINTAINS PROFITS AS WELL AS MACHINES

- Avoids unplanned machine stops and consequent production losses
- Increases overall plant profitability
- Encourages accurate maintenance scheduling
- Increases component life
- Reduces spares inventory
- Decreases total maintenance costs
- Optimises lubricant life
- Monitors condition of machinery under guarantee

CASTROL PREDICT – A UNIQUE, SPECIALIST SERVICE FROM THE ACKNOWLEDGED MARKET LEADER

Condition based maintenance is now accepted as one of the most cost-effective strategies to combat machine breakdown. Analytical tests reveal trends about the condition of the machine and its components, allowing the purchase of components and scheduling of repairs. This allows maintenance to be scheduled without loss of production or subsequent profit loss.

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FERROGRAPHY IS THE KEY

Ferrography is one of the best analysis techniques and uses a sample of lubricating oil to produce a ferrogramme. Analysed microscopically, this identifies the exact nature of all particles present e.g. steel from a gear tooth, copper from a bearing bush. This information produces a trend illustrating the type, size and number of particles present, highlighting individual particle increases to predict abnormal wear.

UNRIVALLED EXPERTISE AND EXPERIENCE

The key to managing a successful maintenance forecasting strategy using ferrography is the skill and experience of the analysts performing the tests. Castrol Predict has dedicated analysts who only perform ferrography tests and whose level of skill is unrivalled in the industry – plus they have access to a comprehensive database of ferrography analysis that allows for objective comparisons. Castrol Predict's unique microscopic wear monitoring has helped companies minimise maintenance costs and maximise plant profitability.

PREDICTIVE MAINTENANCE

1 CUTTING WEAR BY ABRASIVE CONTAMINANTS OR MISALIGNMENT

2 GLASS FIBRE FILTER ELEMENT BREAKTHROUGH

3 SMALL SPHERES REVEAL INITIAL BEARING WEAR

4 SEVERE SLIDING WEAR PARTICLE WITH STRIATION LINES

Castrol Predict Sampling Kit

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