INDUSTRIAL OIL **ANALYSIS**

WEAR CHECK®
Condition Monitoring Specialists

Testing and Analysis | Lubricant-Enabled Reliability |
Asset Reliability Care

www.**wearcheck**.co.za

Industrial Oil Analysis

The analysis of used oil adds value to an operation by serving as a cost-reducing predictive maintenance tool for oil-wetted machinery.

WearCheck's programme analyses for wear, contamination levels and oil condition in any oil-wetted component or oil filter found in equipment used in a wide spectrum of industries, including the electrical, maritime, mining, earthmoving, construction, road transport and aircraft sectors.

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Laboratory tests

The exact tests carried out on a sample are determined by the type of machine, the component and the type of oil.

Industrial Oil Tests

The tests are designed to measure applicable combinations of the following:

- Wear metals
- Contaminants: dirt, water, fuel, soot, coolant
- Additives
- Cleanliness rating
- Viscosity at 40°C and 100°C
- Water, in parts per million, by Karl Fisher titration
- Total base number (TBN)
- Total acid number (TAN)
- Oil filter analysis

An advanced industrial kit ensures that a particle count (ISO 4406) is carried out on all samples except engines. All samples get MPE (Microscopic Particle Examination) and an image of any debris present irrespective of sample status, and a TAN (Total Acid Number) is measured on all samples except those from engines which get TBN (Total Base Number).

Industrial oil samples can also be married to other condition monitoring techniques such as thermography and vibration analysis. These services are supplied by WearCheck's Reliability Solutions division.

Reports

Reports contain the analytical results, an interpretation of the results, recommendations on machine and oil conditions, and various checklists from our highly qualified and experienced diagnostic team. Reports are available in a range of formats, including print, fax, SMS, email, via WearCheck Online (which is a web-based system enabling customers to create charts and graphs to track the test results), or via the WearCheck App.

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