

INDUSTRIAL OIL ANALYSIS



Oil & Fuel Analysis | Reliability Solutions |
Transformer Chemistry Services



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.

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.

Contact Details

South African Offices & Laboratories

Head Office

Unit 4, The Terrace, Westway Office Park,
Westville, KwaZulu-Natal
t : +27 31 700 5460
e : support@wearcheck.co.za

Bloemfontein

Unit B, 4 Milner Road
Waverley, Bloemfontein
t : +27 51 101 0930
e : support@wearcheck.co.za

Eastern Cape

8 Van Wyk Road,
Westering
t : +27 41 360 1535
e : support@wearcheck.co.za

Gauteng

30 Electron Avenue,
Isando
t : +27 11 392 6322
e : support@wearcheck.co.za

Middelburg & Witbank

Unit 7a Nungu Industrial Park
13 Mandela Drive, Middelburg
t : +27 13 246 2966
e : support@wearcheck.co.za

Northern Cape

4 Peace Haven, Hendrik Van Eck Street,
Kathu
t : +27 66 474 8628
e : support@wearcheck.co.za

Rustenburg

221A Beyers Naude Street,
Rustenburg
t : +27 83 938 1410
e : support@wearcheck.co.za

Steelpoort

R555 Road, Block B6,
Steelpoort Mining Park
t : +27 71 269 1332
e : support@wearcheck.co.za

Western Cape

Unit 33, Prosperity Park, 10 Computer
Road, Montague Gardens, Cape Town
t : +27 21 001 2100
e : support@wearcheck.co.za

International Offices & Laboratories:

Botswana (Agent - Sound Principles)

Plot 54014, Gaborone West,
Garaone
t : +267 311 6829
e : support@wearcheck.co.za

Ghana

Adjacent PanAfrican (Zen Yard), Akyempin Road,
Tarkwa
t : +233 54 431 6512
e : supportgh@wearcheck.com.gh

India

#16 - B Kamokoti Nagar Main Road, Pallikaranai,
Chennai, 600 100, Tamilndau
t : +91 44 4557 5039
e : nissar@wearcheck.co.in

Mozambique

Bairro Chitata, VILA de Moatize,
Tete
t : +258 84 697 7006
e : supportmz@wearcheck.co.mz

Namibia

Unit 14, Lafrenz Industrial Park – Erf R/E 26 W,
Rendsburger Street, Windhoek
t : +264 81 229 6926
e : support@wearcheck.co.za

Pakistan (Agent - Feasible Solutions)

A-3/6 Phase II, Regency Apartments near Musken
Chowrangi, Gulshan-elqbal, Karachi
t : +971 6 740 1700
e : support@wearcheck.co.za

UAE – Dubai

Plot 271, Sector 18
Al Jaraf Area, Ajman
t : +971 674 01700
e : operations@wearcheckpm.com

Uganda (Agent - API Technical Services Limited)

Plot 8, Luthuli Drive
Bugolobi
t : +256 78 529 6994
e : support@wearcheck.co.za

Zambia

Plot 3717, Prescott Road
Light Industrial Area, Kitwe
t : +260 212 210 161
e : support@wearcheck.co.za

Zimbabwe

23 Amby Drive, Amby, Harare
t : +263 24 244 6369
e : evanm@wearcheck.co.zw