

WEAR[®] CHECK

Condition Monitoring Specialists



Company Profile

WearCheck

History

WearCheck was founded in 1976 by Gary Brown and Lesley and Wally Crawford, in Durban, South Africa.

The tests carried out consisted of viscosity, six elements, water, fuel, sludge and debris analysis with no automation. The company employed 10 people and processed less than 500 samples per month.

Today

WearCheck is a member of the International WearCheck Group (IWCG) and is the pre-eminent oil condition monitoring service on the African continent, processing in excess of 750 000 samples per annum. The IWCG is an association of independent laboratories spanning the globe, dedicated to oil and wear particle analysis. WearCheck's relationship with IWCG allows for the ongoing exchange of technical information and the ability to offer a worldwide service.

WearCheck has evolved into an all-in-one reliability solutions hub with the creation of a full reliability solutions division and the addition of a complete transformer health monitoring division. A team of highly-skilled condition monitoring experts are located across the country. Reliability Solutions analysts and technicians conduct specialist services and other non-destructive condition monitoring techniques including vibration analysis, laser alignment, thermography and aerial drone inspections.

At WearCheck, we're proud to have over 40 years' predictive maintenance experience across a wide range of industry sectors covering more than 2 000 customers. We understand that every single sample is equally important and we strive to go the extra mile for every one of our customers.

WearCheck's expansive service offering also includes water analysis through our newly established water division, which analyses the quality of wastewater, groundwater and surface water across a range of industries. From drinking water to factory effluent. We are also able to test Adblue according to the requirements set out in ISO 22241-2.

We pride ourselves on exceptionally low staff turnover, with many employees remaining with the company for 10, 20 and even 35 or 40 years. The long-term staff loyalty leads to exceptional customer and product knowledge which translates into excellent customer service.



Why WearCheck?

Complete predictive maintenance solutions

WearCheck's vast range of products and services has evolved into a one-stop shop for condition monitoring services, which aims to address every proactive maintenance requirement – including the analysis of oils, fuels, coolants, greases, filters and transformer oils, as well as vibration monitoring, thermography and allied services.

Condition monitoring is our core function – we do not sell machinery or oil, but rather focus on keeping machinery operating in peak condition through a managed predictive maintenance programme.

Solid infrastructure

With a presence in nine countries, WearCheck is one of the largest condition monitoring operations in the world, and our expansion into areas with a high demand for oil analysis translates into increased accessibility to our services. The WearCheck network currently incorporates 22 branches and 16 laboratories (10 of which are outside of South Africa), and employs over 200 people – all of whom are dedicated to customer service excellence.

State-of-the-art lab equipment

Under the expert guidance of a team of highly-qualified, experienced chemists, WearCheck's laboratory instruments are constantly monitored to ensure they are operating according to original specifications to minimise deviations. Laboratory equipment is regularly replaced to remain at the cutting edge of available technology internationally. One of the benefits of operating many laboratories is that samples can be processed in any one of our other laboratories seamlessly - the duplicate instruments in each laboratory serve as back-up when necessary, ensuring that downtime is never experienced.

Technical support and on-site sampling

WearCheck's dedicated technical support and sampling teams are available as an added value service to ensure that you receive a flawless sampling and analysis report. A trouble-shooting service is available to assess and evaluate problems on-site.

Product knowledge

Over time, WearCheck's team of experienced diagnosticians have amassed a database of over 10 million samples. This knowledge base is a source of pride for WearCheck, and forms the basis of a library of historical data trends across many makes, models, types and brands of equipment and is an invaluable reference for trend analyses. The data is also used extensively in training, both in-house and for customer courses.

Original equipment manufacturer (OEM) relationships

WearCheck enjoys solid, long-term business relationships with major OEMs and leading lubricant suppliers. However, WearCheck is an independent oil analysis and condition monitoring service provider and we treat the analysis information, product knowledge and intellectual capital of all our customers with integrity and confidentiality.

Universally-supported software

WearCheck is committed to keeping abreast of the very latest technology. As such, a high-tech reporting system has been developed, which gives customers the flexibility to track samples and gather results anywhere in the world. Sample reports are easily accessed by SMS, online or via the Mobile App. With critical samples, this real-time service is often the difference between the prevention of a failure and an actual failure, thus avoiding the loss of valuable time and money.

Diagnosis

One of WearCheck's most valuable assets is its team of highly-qualified diagnosticians, who collectively have over 165 years of experience in the industry, and are ICML (International Council for Machinery Lubrication) certified. It is this knowledge and experience which translates laboratory results into accurate reports, which save machinery and prevent down time, and hence save customers money.

Our Services

Oil analysis is as important for maintenance engineering as blood testing is for medicine. It is the scientific analysis of all types of lubricants and transformer oils, coolants, greases and filters and is an established method for predictive and preventive maintenance. Preventive maintenance programmes are essential for optimising operational efficiency and performance of mechanical and electrical systems.

Using WearCheck's services for predictive preventive maintenance offers many benefits, including competitive pricing and short turnaround time. Analyses are carried out at state-of-the-art, custom-built, automated laboratories with interpretation and reports being completed by highly-qualified staff.

The company's testing capabilities:

- Viscosity
- Density
- Distillation
- Flashpoint
- Water (by Karl Fischer)
- Appearance/colour
- Wear metals
- Particle contamination
- Dissolved gases
- Total acid and base numbers
- Furanics
- Dielectric strength
- PCB analysis
- RULER test
- Copper and silver corrosion
- Thermography

Continued investment in new technology has ensured that all equipment in WearCheck's laboratories is state-of-the-art, matching or surpassing our local and international counterparts. The ever-increasing range of advanced equipment in these custom-built laboratories include:

- Inductively-coupled plasma spectrometers
- Fourier transform infra-red spectrometers
- HIAC, PAMAS (GmbH) and LaserNet Fines particle counters
- SL Houillon viscometers
- Gas chromatographs
- Rotary particle depositors

- Particle quantifiers
- Microscopes
- Image-processing systems
- Distillation and flashpoint apparatus
- High performance liquid chromatography systems
- Karl Fischer titrators
- Dielectric strength testers
- Digital titrators

A high degree of automation in the laboratories ensures reliability of results and has virtually eliminated time-consuming paper work, reducing the possibility of errors.

Other services

- Telephonic and on-site support
- Advice, including in-depth investigations and troubleshooting by our highly-qualified diagnosticians
- Suppliers of a wide variety of different sample kits and accessories such as sampling valves and extraction pumps
- Technical publications and conferences
- A comprehensive training programme, offered both on-site and at WearCheck's offices
- WearCheck Online is a web-based service which allows customers to receive their WearCheck results on the Internet and to manage their oil analysis programme from their own computer
- Reports are communicated either by e-mail, fax, SMS, telephone, by post or via our Mobile App
- Several options are available to speed up the delivery of samples to the laboratory and more than 90% of all oil samples are processed within 24 hours of the sample reaching the laboratory
- On-site sampling and sample collections.



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