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Superior condition monitoring reduces maintenance costs

WearCheck is Africa's leading integrated condition monitoring solutions company and has been dedicated to saving money for their customers for over 40 years, by improving the reliability and availability of machinery.

The company's range of condition monitoring techniques incorporates the scientific analysis of used oil and other fluids from mechanical and electrical systems and a variety of advanced monitoring techniques.

WearCheck's customers operate in many industries - mining, transport, shipping, industrial, aviation, power generation / renewable energy, water processing and more.

WearCheck's footprint covers 14 world class laboratories across nine countries in Africa and beyond, with several agents around the continent. In SA, laboratories are in Johannesburg, Cape Town, Durban and Middelburg, with strategic support offices in other centres. International laboratories include Mozambique, Ghana, Zimbabwe, DRC, Namibia, India, Dubai and Zambia.

Neil Robinson, WearCheck's managing director, shares the company's vision, 'There is a great need, around Africa, for world class condition monitoring services to help boost the operating efficiency of the industries that are the backbone of the economy, such as mining, trans-

portation, power generation, renewable energy and others.

'Once we have pinpointed an industry hub where enough nearby businesses will benefit from WearCheck's services, we then open a laboratory there. In some cases, the laboratory is in a brick and mortar building, in others, a converted shipping container becomes our on-site laboratory.

'By placing laboratories around Africa, we aim to make our condition monitoring expertise more accessible. We feel that this investment in Africa will benefit the entire continent - by enhancing operational efficiency to help businesses become more competitive, as well as creating jobs.

Asset reliability - specialist condition monitoring techniques

The scientific analysis of used oil samples from a component gives insight into the condition of that asset, providing important clues on whether remedial action is needed for the asset to continue operating optimally.

For example, using the data from the oil analysis, WearCheck diagnosticians can advise whether the oil needs changing, or if there is imminent of catastrophic failure. By pre-planning repair time, the customer saves money on unplanned maintenance.

Alongside the traditional fluid analysis services, customers also have access to reliability solutions (RS) services, advanced field services (AFS) and transformer chemistry services (TCS).

Reliability Solutions Services (RS)

The RS team specialises in condition monitoring techniques such as thermal imaging, vibration analysis, laser alignment, balancing, operational deflection shape (ODS), structural resonance, ultrasonic services and many other specialist techniques that provide scientific data that helps to keep assets operating at optimum levels while boosting their lifespan.

Transformer Division

The transformer team conducts dedicated transformer monitoring. WearCheck offers standard transformer oil quality analysis (colour, visual, dielectric breakdown voltage, water content, interfacial tension, acidity, power factor and specific gravity) as well as specialist diagnostic tests such as dissolved gas analysis, furanic compounds, metals-in-oil, paper quality testing and tap changer / diverter diagnosis.

Advanced Field Services (AFS) The key functions of AFS are to create a secure safety

environment for both man and machine, and to reduce operational risks. WearCheck's highly-skilled and experienced inspectors are on call 24/7/365 to help identify underlying defects and mitigate these risks on critical equipment.

The advanced field services are:

- Non-destructive testing (NDT) – test the integrity of a component or system without damaging it.
- Technical compliance (TC) - expert guidance to assist with regulatory requirements.
- Rope condition assessment (RCA) – inspecting the integrity of steel rope cables, as per OEM or international standards.

Quality is guaranteed with WearCheck

WearCheck is currently the only oil analysis operation in Africa with an ISO 9001 quality certification, an ISO 14001 certification for its environmental management programme, and an ISO 17025 accreditation for its laboratory centric quality management programme. WearCheck is currently working on its ISO 45001 certification for health and safety management. Continued investment in new technology and staff training ensures that all equipment in



Neil Robinson, WearCheck's managing director, feels that investing in Africa and broadening the accessibility of world class condition monitoring services will strengthen the continent's business landscape.

WearCheck's laboratories is state-of-the-art, and employees are highly skilled. Laboratories are largely automated and integrated with the latest information technology. Research and development play a major role in the company's continuous commitment to improving systems.

Meanwhile, WearCheck's condition monitoring App ensures that their condition monitoring expertise is available 24/7/365.