

# ADVANCED FIELD SERVICES



# Advanced Field Services

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In addition to the scientific analysis of used oil and other industrial fluids, WearCheck encompasses a one-stop approach to condition-monitoring offering a range of reliability improvement techniques - all of which help our customers to reduce costs and improve the availability and performance of machinery and components.

We have expanded our world-class reliability solutions division with the acquisition of an established field services department that previously formed part of Anglo (Anglo Field Services), adding three completely new testing types to our portfolio and boosting our existing services with new technology, skills and manpower.

The key functions of field services are to create a secure safety environment for both man and machine, and also to reduce operational risks. Our highly-skilled and experienced inspectors are on call 24/7/365 to support customers with identifying underlying defects, and mitigating these risks on critical equipment.

## The new advanced field services are:

### Non-destructive testing (NDT)

Techniques to test the integrity of a component or system without damaging it.

### Technical compliance (TC)

Expert guidance to assist companies with regulatory requirements, highlighting unacceptable conditions and facilitating reticulation equipment compliance during audits.

### Rope condition assessment (RCA)

Inspecting the integrity of steel rope cables, as per OEM or international standards.

## Non-destructive testing (NDT)

This includes a variety of testing techniques through which the properties and condition of a component or system is evaluated without causing any permanent damage to it - critical component assessments, machine condition assessments and inspection of ancillary equipment, including main vent fans, compressors, mills, pumps and conveyors.

The NDT team delivers quality assurance and quality control of new and refurbished components. These NDT tests are conducted: eddy-current, magnetic-particle, liquid penetrant, radiographic, ultrasonic and visual testing.

NDT methods are gaining popularity because they do not permanently alter the test object undergoing inspection, making NDT a valuable tool that can save both money and time in condition monitoring and inspections.





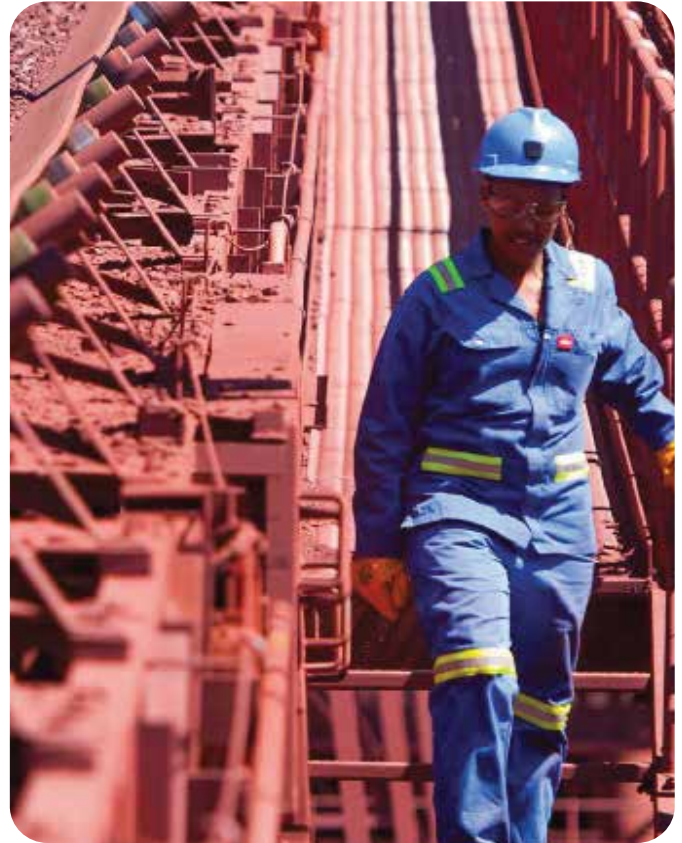
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## Technical Compliance (TC)

The technical compliance division provides expert guidance to assist companies to comply with regulatory requirements, and how to rectify violations or problems highlighted during audits. Compliance promotes operational and technical excellence through risk identification and corrective action implementation.

Our specialist compliance techniques assist many industries, among them geological, metallurgical, accounting and laboratory reviews. We facilitate international and Group Technical Standards compliance, manufacturing-certified reference material, density determination techniques and quality management systems.

The TC team provides specialist audits on hoisting systems, shaft decelerometer testing, winder level and dynamic break testing, as well as vertical shaft guide alignment. Auditing services encompass AerView, AerView II, Locked Bell, ventilation fan electrical audits and machinery compliance audits.



## Rope Condition Assessment (RCA)

The integrity of steel rope cables is inspected - as stipulated in the SANS 10293:1996 Code of Practice for Steel Wire Ropes – by our seven highly-qualified inspectors (of only 12 people in RSA who are suitably qualified). All are certified to South African Qualification and Certification Committee (SAQCC) level II.

Non-destructive rope inspections improve safety where steel wire ropes play a safety-critical role, where regular RCA is a legal requirement. Examples include mine winders, chairlifts, incline winders, shaft rope guides, elevators, flare/slack stay ropes, as well as stacker/reclaimers and belt wagons.

Some of our more well-known RCA customers include Cape Town's Table Mountain aerial cableway and Namdeb – a shallow-water inshore diamond mine in Namibia.

Rope manufacturers rely on RCA as a means of ensuring compliance with quality specs during the quality assessment (QA) process in the production of new ropes.

*ds88 - April 2025*



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