

# WEARCHECK STRENGTHENS ONSITE SAMPLING CAPABILITIES

The precise accuracy of taking an oil sample from a machine component is one of the most critically important steps in the scientific analysis of oil as part of a condition monitoring programme.

Taking samples is often a very specialised task, and not all maintenance teams have the correct training. Samples that are not taken correctly potentially contain external contamination and other material – even in minuscule amounts - that could compromise the accuracy of the test results.

‘It is for this reason that we decided to grow our onsite sampling team, equip the technicians with extra training for a wider scope of fluids, and allocate dedicated vehicles to them,’ says Juliane de Beer, WearCheck’s national sales manager.

‘The WearCheck onsite sampling team now consists of eight highly skilled, technically certified professionals, collectively bringing over 40 years of industry experience. Their primary mission is simple - to make our customers’ lives easier through efficient, reliable, and expert onsite sampling services.’

Juliane explains that by taking the hassle out of sample collection, the team ensures that every sample is obtained using the correct procedures and best practices. This guarantees accuracy, consistency, and integrity, which are critical for dependable analysis results.

‘The sampling technicians travel to clients located anywhere in South Africa as well as internationally, to take samples.



*WearCheck onsite sampling technician, Jaco de Beer, takes an oil sample from a transformer*



Here, an oil sample is taken from a motor-driven centrifugal pump by WearCheck onsite sampling technician, Jaco de Beer

**Incorrectly taken samples can compromise the integrity of the test results, leading to maintenance decisions which may be unnecessary.**

‘Our onsite sampling technicians collect a wide range of fluids from industrial equipment, including oil, fuel, coolant, transformer oil, brake fluid, AdBlue<sup>®</sup> and other fluids. Whether operating in demanding industrial environments or routine maintenance settings, our team delivers precision and professionalism at every step.’

The convenient onsite service eliminates the need for customers to manage the sampling process themselves, saving valuable time while reducing the risk of contamination or human error.

To book the taking of an onsite sample or for additional information, please contact your WearCheck sales rep. Alternatively, please call WearCheck on +27 11 392-6322 or [martind@wearcheck.co.za](mailto:martind@wearcheck.co.za)

# TECHNICAL TIP: WHEN GOOD OILS GO BAD

by Steven Lumley – technical manager, WearCheck

## P1 - Oils don't die, they degrade

There are certain things in life that improve with age. Wine and whisky develop deeper, more complex flavours. Bonsai trees mature into highly valued works of art and even acoustic guitars and violins are said to improve in tone as the wood ages and the instrument opens up.

Unfortunately, the list of things that don't improve with time is far longer. Our physical health declines, sometimes along with our sense of humour. Metals corrode, paint fades and, perhaps less romantically but more relevantly, lubricants also age.

Unlike wine or instruments, however, lubricants are not designed to get better with age.

Lubricants rarely fail suddenly. They don't just wake up one morning and decide to stop working, and they don't usually announce the end of their useful life with dramatic symptoms. Usually, a lubricant quietly ages, reacts, and is slowly consumed by the environment in which it operates. By the time a problem becomes obvious, the oil has usually been struggling for some time. This is what we mean when we say, "when good oils go bad".

A lubricant doesn't become "bad" simply because it has darkened, developed an odour or been in service for a period of time. These changes are often early symptoms of degradation, but they do not, on their own, define failure. A good oil goes bad when it can no longer perform the functions it was designed to perform. So, what is a lubricant actually supposed to do?

A fully formulated lubricant is far more than just "oil." It's a carefully balanced blend of base oils and additives designed to perform several critical functions all at the same time. While the specific functions vary by application, they generally fall into five fundamental groups.

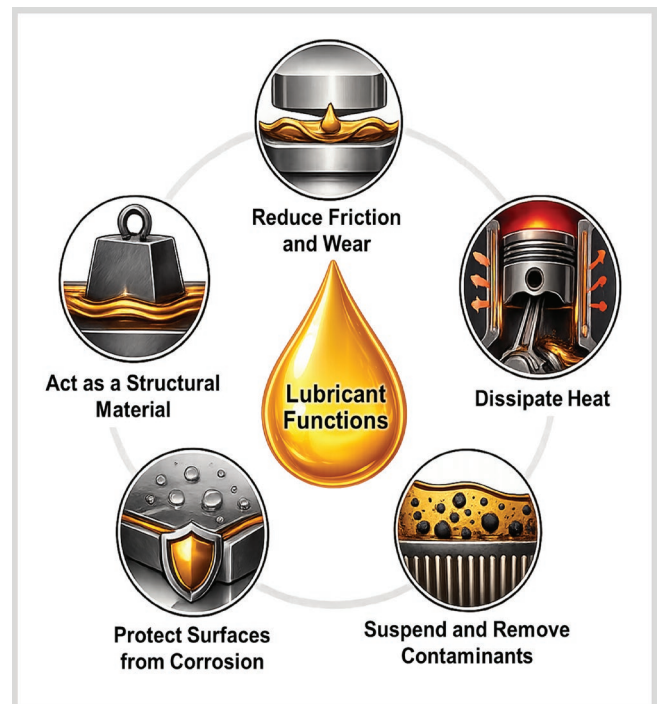
Firstly, lubricants are used to reduce friction and wear between moving surfaces. By maintaining a protective film, the oil limits metal-to-metal contact and helps prevent mechanical damage.

Secondly, lubricants play a vital role in dissipating heat. As machines operate, friction, load, and in some cases combustion, generate heat that must be removed from critical components. The lubricant acts as a heat-transfer medium carrying thermal energy away from high-temperature zones.

Thirdly, lubricants are expected to remove and suspend deposits. Contaminants like wear debris, soot and oxidation by-products must be kept in suspension and carried away from sensitive surfaces so they can be removed by filtration or oil changes.

Fourthly, lubricants are formulated to protect metal surfaces from corrosion and chemical degradation. Additives are included to neutralise acids, inhibit rust and prevent chemically aggressive species from attacking machine components.

And finally, a lubricant acts as a structural material. Viscosity, film strength and load-carrying capacity determine whether the oil can physically separate surfaces under operating conditions. If the oil film collapses, the lubricant can no longer do its job.



## From degradation to lubrication failure

Lubricant degradation is often the first step on the path toward lubrication failure, but the two are not the same.

Degradation refers to the gradual chemical and physical changes that occur in an oil during service. Additives are consumed, base oils react with oxygen, contaminants accumulate and operating stresses take their toll, yet - initially - these changes may not significantly affect machine operation.

Lubrication failure, however, occurs when degradation has progressed to the point where the oil can no longer protect the equipment. At that stage, wear rates increase, temperatures rise, deposits form, corrosion accelerates and component damage becomes likely.



## Lubricant Degradation

- Gradual
- Often Invisible
- Detectable Early



## Lubrication Failure

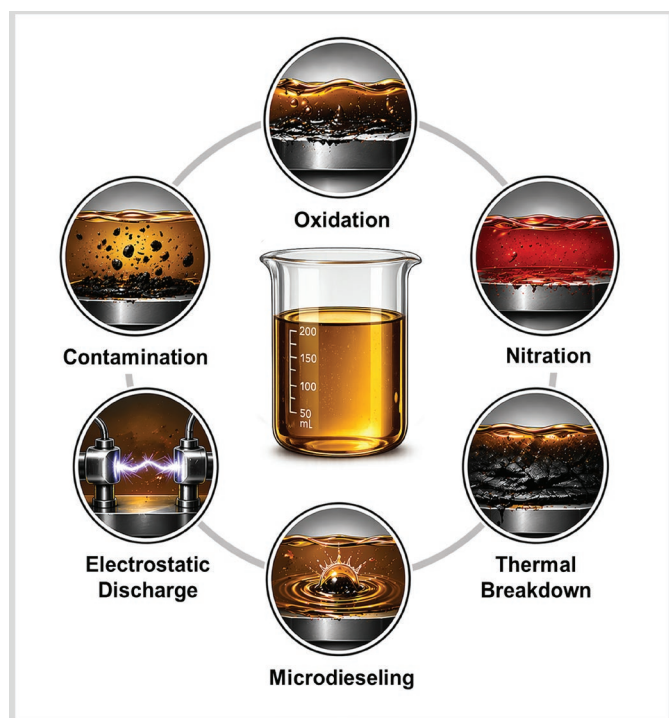
- Late Stage
- Visible Damage
- Costly Consequences

The critical distinction is that degradation begins long before failure becomes visible or irreversible. Understanding this gap between degradation and failure is what allows corrective action to be taken in time.

This is where oil analysis plays a vital role - not as a post-mortem tool, but as a means of detecting lubricant degradation early while intervention is still possible.

## Why do oils degrade at all?

Even the best lubricant operating in well-maintained equipment under favourable conditions has a finite life. Oils degrade because they are continuously exposed to stresses that slowly change their chemistry and performance.



Heat accelerates chemical reactions while oxygen drives oxidation. Contaminants such as water, fuel and soot interfere with additive performance and promote further oil degradation, and mechanical stresses can break down polymeric additives like viscosity index improvers. Over time, the very additives designed to protect the oil and the machine are consumed doing their job.

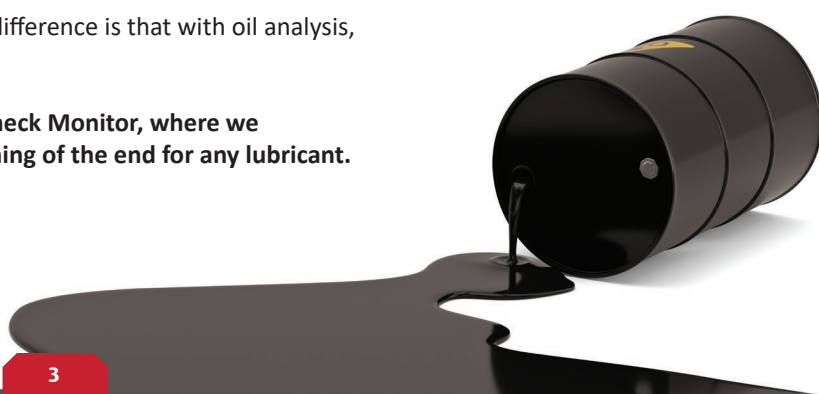
What is important to note is that these processes do not occur in isolation. Multiple degradation mechanisms are usually active at the same time interacting with and accelerating one another. This is why lubricant degradation can be difficult to interpret without understanding how and why these changes occur.

In this WearCheck series, When Good Oils Go Bad, we will explore the main ways lubricants degrade in service and how these degradation modes affect oil performance and machine reliability - from oxidation and nitration to thermal breakdown, microdieseling, electrostatic spark discharge, additive depletion and contamination.

By understanding how lubricants degrade, it becomes easier to interpret oil analysis results, identify emerging risks and make informed maintenance decisions. After all oils don't die - they degrade, and the earlier we understand that process, the better we can manage it.

Like people, lubricants age whether we notice it or not - the difference is that with oil analysis, at least the oil can't lie about it.

Look out for the next instalment of this series in the WearCheck Monitor, where we introduce the first degradation mode - oxidation, the beginning of the end for any lubricant.



# WORLD OF WATER: SANS 241:2025 USHERS IN A NEW ERA FOR DRINKING WATER SAFETY

WearCheck Water, which operates specialist water laboratories in South Africa, has welcomed the newly published SANS 241:2025 Drinking Water Standard as a major step forward in protecting public health.

According to laboratory manager Michelle Wium, the revised standard marks a decisive shift from a traditional compliance-driven approach to a more proactive, risk-based framework – a philosophy long advocated by WearCheck Water.

‘SANS 241:2025 is a better reflection of the real risks faced by drinking water systems and promotes early detection and intervention,’ says Michelle. ‘This is particularly important in a country where environmental disruptions such as drought, flooding, infrastructure failure and industrial activity can rapidly impact water quality.’

The updated standard places greater emphasis on continuous monitoring, risk assessment and water-safety planning, aligning more closely with World Health Organization guidelines. For municipalities, this means stronger integration between raw-water monitoring, treatment optimisation and distribution-system management.

Several key technical improvements have been introduced. Microbiological monitoring has been strengthened with the inclusion of intestinal enterococci, providing an additional indicator of faecal contamination and improving consumer protection.

In terms of physico-chemical testing, Total Dissolved Solids (TDS) has been removed as a compliance parameter, as it can be reliably inferred from electrical conductivity. This change reduces unnecessary analytical costs while maintaining effective risk assessment. At the same time, greater emphasis has been placed on pH control, which is critical for corrosion management, disinfectant effectiveness and protecting ageing infrastructure.

One of the most significant advances is the expanded regulation of disinfectants and their by-products. The revised standard introduces clearer limits and stricter monitoring requirements for compounds such as bromate, chlorate and chlorite. These substances, often formed during treatment processes, can pose long-term health risks if not properly controlled.

Another important update is the requirement to analyse metals as total concentrations rather than dissolved fractions. This provides a more accurate representation of actual consumer exposure, addressing a long-standing limitation in previous standards. Limits for metals such as aluminium, zinc and manganese have also been tightened.



SANS 241:2025 also introduces a more targeted approach to monitoring, requiring municipalities to assess risks specific to their catchments. This includes contaminants such as benzene, atrazine and DDT, depending on local environmental conditions.

In addition, the standard strengthens the management of cyanobacterial risks, reflecting growing concerns around algal blooms and climate-related pressures on water sources. Compounds affecting taste and odour, such as geosmin and MIB, are now more closely linked to monitoring programmes.

‘In essence,’ says Michelle, ‘the updated standard is designed for prevention rather than reaction. By focusing on risk-based monitoring and early intervention, it supports safer water and greater public confidence.’

WearCheck Water continues to support municipalities, water service providers and industry with accurate analysis, expert interpretation and proactive water quality management.

*Mcacisi Maqetuka, laboratory technician at the WearCheck Water laboratory in Cape Town, performs bench-top work*

## WearCheck partners with Truck Test 2026



We are proud to announce our partnership with Truck Test 2026, hosted by *Focus on Transport & Logistics* from 3–5 November 2026. Marketing manager, Vanessa Evans, explains that this is a valuable opportunity to strengthen WearCheck’s presence within the transport and logistics sector.

Truck Test is one of South Africa’s most respected independent truck evaluations. During the event, a fleet of heavy commercial vehicles will undertake a demanding real-world route from Johannesburg to Durban and back. Key performance indicators – including fuel consumption, payload capability and driving time – will be closely monitored to determine top-performing trucks.

The results will provide transport operators with practical, data-driven insights to support fleet selection and operational decisions.

‘As specialists in condition monitoring, we understand how critical reliability, efficiency and predictive maintenance are in the transport industry,’ says Vanessa. ‘Truck Test offers a unique opportunity to assess performance under real conditions, and we’re excited to contribute our expertise.’



## Top Transformer Tips

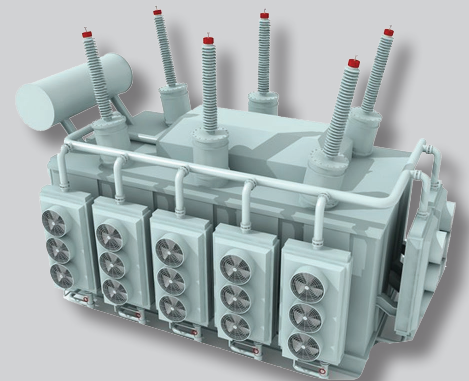
Accurate sampling is the foundation of reliable transformer oil analysis, but the real value of testing lies in how the results are interpreted and applied. Once laboratory results are received, the next step is to translate the data into meaningful maintenance decisions that protect transformer reliability.

Moisture levels, dissolved gases and oil condition indicators should always be assessed in context. Rather than focusing on a single result, maintenance teams should compare current findings with historical data to identify developing trends. Even small increases in moisture or gas concentrations can signal early insulation deterioration, overheating or sealing problems. Tracking these changes over time helps identify potential faults long before they lead to equipment failure.

Correct interpretation also depends on understanding the transformer’s operating conditions, oil type and application. Different systems may tolerate different moisture levels, so results should always be evaluated against appropriate standards and operational history.

At WearCheck, we assist utilities and industrial operators by analysing transformer oil samples and providing guidance on maintenance actions such as filtration, dehydration or further diagnostic testing.

Remember: a laboratory report is not the end of the process. It is the starting point for informed maintenance decisions that keep transformers operating safely and reliably.

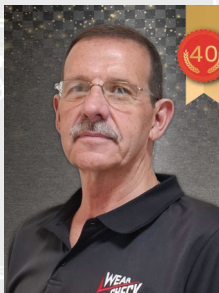


# MAKING HEADWAY

## LONG SERVICE VALUED

WearCheck places great value on the loyalty and commitment of its people. This is according to Michelle Padayachee, the company's HR manager, who recently congratulated several long-serving employees on reaching significant service milestones.

'It is both rewarding and encouraging to see so many team members who have dedicated many years to WearCheck,' she says. 'Their experience, dedication and institutional knowledge not only strengthen the company, but also add real value to the service we provide to our clients. This year, we celebrate Johan Stols, who has dedicated four decades to our technical compliance division, along with other notable long-service milestones.'



*Johan Stols  
technical compliance  
manager*



*Danny Nkomo  
driver*



*Moses Lelaka  
technical water  
lab manager*

## Welcome, Nomi!

WearCheck's Middelburg branch is excited to welcome Nomndeni (Nomi) Mthombeni as its new customer service assistant.

With five to six years' experience as an administrator across a range of industries – from law firms to ISP companies – Nomi brings valuable organisational skills and a strong customer-focused approach to the team.

Already well known for her bubbly personality, Nomi has made a memorable impression with her enthusiastic, high-pitched "Good morning!" greeting that sets a positive tone for the day. Her energy doesn't stop there – she jokes that she runs on energy drinks, as waiting for a kettle to boil simply takes too long!

Welcome to the team, Nomi!



## Dedication delivers cum laude honours



We are proud to celebrate a remarkable academic achievement by Ivana Naidoo, who successfully completed her BCom Honours degree in Business Management through UNISA – graduating cum laude.

Ivana, who has been part of WearCheck Durban's customer support team since 2023, balanced the demands of full-time work with her studies. Her dedication, discipline and perseverance have resulted in an outstanding academic performance.

Reflecting on her success, Ivana shares: 'Juggling work and studies came with its challenges, but through God's grace, the journey has been incredibly rewarding. I'm grateful for the support from my team and everyone who encouraged me along the way.'

She adds that she is motivated to turn her newly gained knowledge into meaningful impact and to continue striving for even greater academic achievements in the future.

We congratulate Ivana on this exceptional accomplishment and look forward to seeing her continue to grow and excel.

# FUEL ADULTERATION - THE BLEND THAT BREAKS BUSINESSES

by Rivendren Moodley – diagnostician, WearCheck

**Fuel adulteration is costing South African businesses billions and most victims never see it coming.**

**Diesel powers the backbone of our economy. Trucks, tractors, mines, generators, factories — if it operates, it is likely to run on diesel. Yet that essential fuel has become a prime target for criminal syndicates exploiting a dangerous chemical loophole.**

## **Chemically similar, mechanically devastating**

Fuel adulteration is the deliberate blending of an unauthorised substance into diesel to increase volume and pocket the price difference. Paraffin is the adulterant of choice because both fuels are petroleum-derived hydrocarbons with overlapping boiling ranges therefore they mix seamlessly, leaving no visible trace. The fraud is invisible until the damage is done.

## **The margin in the mixture**

The economics are simple and devastating. Because paraffin carries a lower tax burden than diesel, criminal operators blend the two, sell the mixture at full diesel price, and pocket the difference. This industrialised fraud costs government an estimated R3.6 billion in lost tax revenue annually — while legitimate suppliers are undercut and equipment owners inherit the repair bill.

## **Your injectors find the fraud. Your wallet pays for it**

Modern common-rail engines operate at injection pressures exceeding 2 000 bar. At these tolerances, diesel must do more than burn — it must lubricate and cool precision injectors and high-pressure pumps. Paraffin is lighter and far less lubricating. Even a modest blend accelerates wear on components with micron-level clearances, leading to injector sticking, poor spray patterns, pump failure, rising fuel consumption, emissions faults, and premature engine failure. Because fuel-related damage is routinely excluded from manufacturer warranties, the equipment owner absorbs every cent.

## **The invisible threat**

Adulterated diesel is visually indistinguishable from normal diesel. Standard tests for density, viscosity, and flash point offer clues, but syndicates now use additives specifically to mask these changes, allowing blended fuel to pass specification tests while still destroying the engine it enters.

- SARS-mandated chemical markers in paraffin offered a temporary solution, until syndicates chemically removed them.
- More advanced markers proved too expensive for routine use.
- Unmarked imported paraffin bypassed the system entirely.

SANS 342:2025 now classifies adulterants as an undesirable component that can cause harm to a system. However, regulation only defines the problem; it doesn't detect it.



## **The test that closes the loophole**

WearCheck has launched a testing service that does what previous methods could not — it identifies paraffin in diesel directly, independent of markers, origin or masking additives. Accessible enough for routine use across fleets, farms, mines and fuel distributors, it turns proactive screening from a costly exercise into a practical reality.

Because the most effective weapon against fuel fraud isn't regulation, it's a test the syndicates can't beat.



*For the full technical article or to enquire about fuel testing, visit [www.wearcheck.co.za](http://www.wearcheck.co.za) or call +27 (31) 700-5460.*

# OUT AND ABOUT

WearCheck team members often travel far and wide to spread the condition monitoring message, conducting on-site training courses for customers, attending expos, talking at conferences and more. These are some of the latest projects, which saw the WearCheck flag flying high in far-flung places:

## 2026 Investing in Africa Mining Indaba Cape Town

WearCheck's stand showcased a broad mix of condition monitoring solutions, from scientific used oil analysis and transformer oil testing to asset reliability care services and water testing and analysis. A large team of technicians was on hand to highlight how predictive maintenance can strengthen mining performance across the continent.



The WearCheck team at Mining Indaba (from left) – Wayne Rivendren Moodley (diagnostics), Morne Alberts (ARC), Vanessa Evans (marketing manager), Pierre le Roux (transformer laboratories manager) and Steven Lumley (technical manager)

## Taking reliability to new heights India

WearCheck diagnostician Bhupendra D. Jadhav recently delivered hands-on wind turbine training at the Kavaldhara–Tuljapur wind farm in India, working with technicians on Siemens Gamesa turbines at a 76 MW site.

Inside the nacelle, the session focused on practical oil sampling, understanding gearbox health, and using oil analysis data to detect early warning signs before costly failures occur.

By connecting theory to real equipment, the training reinforced a key message: reliable diagnostics start with correct sampling. Sometimes the best classroom is a working wind turbine.



## Oil analysis training, Ghana

A team of maintenance technicians from Drill Masters Africa (DMA) recently underwent oil analysis training at the Ahwetieso site in Tarkwa, Ghana. DMA is a leading drilling contractor for both local and international mining companies throughout West Africa.



Daniel Boakye of WearCheck Ghana conducted oil analysis training for Drill Masters Africa in Tarkwa

## Run your machines at their best!

Be on the lookout for the eye-catching new billboard marking the route to condition monitoring excellence at WearCheck Kathu!

Please pop in for all your condition monitoring needs. You will find our office and lab at 16 Kalk Street.



# AT WEARCHECK, WE CARE WITH WECARE

## WeCare supports safer medical missions in Mozambique

The MozMed programme transports medical doctors to remote areas in Mozambique from Nampula, delivering vital medical care to isolated communities. This is done through a charitable organisation - Mission Aviation Fellowship (MAF) - which is part of Ambassador Aviation LDA.

MAF operates 120 single-engine aircraft across 28 countries, bringing hope and essential services to people who would otherwise be unreachable. They have been transporting doctors to far-flung areas since 1999.

After MAF approached WearCheck to quote on aviation test kits, The WearCheck team was inspired by their selfless work. It was decided to support the MozMed initiative by providing complimentary oil and filter kits, along with the associated oil analysis reports. This is an ongoing project, run through WearCheck's social responsibility initiative, WeCare.

William Romualdo, a pilot and missionary, along with his colleague Nelson, a Mozambican IACM-certified aircraft mechanic who has worked with MAF for 10 years, shared their appreciation: 'Thank you again for this generous donation!' We wish them safe skies and happy flying.



MozMed aircraft mechanic, Nelson is seen with some of the aviation test kits donated to the charitable organisation through WearCheck's WeCare initiative

## WeCare in action – supporting community upliftment



WearCheck is proud to support the East Rand Police Rugby Club – a non-profit organisation committed to uplifting communities through sport, through our WeCare initiative.

This sponsorship will contribute to the club's 2026 season and strengthen its ongoing efforts to develop rugby within the region. With a rich history dating back to the early 1930s, the club continues to play a meaningful role in the community by using rugby as a platform for positive change.

The club promotes discipline, teamwork and personal growth, while creating opportunities for players to develop their skills and passion for the game. At the same time, it is helping to build a strong pipeline of future rugby talent.

WearCheck is honoured to be part of this journey and to support an organisation that is making a lasting impact both on and off the field.

## Flying high with WearCheck

Precision in the air starts with total confidence in our engines – these are the words of the Marksmen Aerobatic squad – a civilian formation display team based in South Africa and operating air shows globally.

WearCheck is their newest sponsor for the 2026 season. The pilots perform high-energy, dynamic air displays including close formation and freestyle aerobatics.

Gary Glasson from the Marksmen Aerobatic team had this to say: 'As world-class condition monitoring specialists, WearCheck provides the critical oil and fluid analysis that keeps our aircraft performing at their peak. In high-performance aerobatics, knowing exactly what's happening inside the engine is a gamechanger for safety and reliability.'

'With our aircraft health in expert hands, a new No. 2 aircraft integrated into the formation, and continued support from our long-standing partners, we're ready for a massive year in the skies!'





# NEW AGENT IN EAST AFRICA

TECHNICAL & ENGINEERING  
SOLUTIONS

WearCheck recently teamed up with Tanzania-based condition monitoring company, Technical and Engineering Solutions (TES), to bring an extensive range of reliability solutions to customers in East Africa.

National sales manager for WearCheck Juliane Strydom, says the partnership is already operational, with TES/WearCheck customers in Tanzania benefiting from the combined service offering. 'Through TES, we can now extend WearCheck's specialist services into a whole new part of East Africa, which complements our WearCheck branch in Mozambique'.

While TES provides local expertise in Tanzania, samples are processed through WearCheck's world-class laboratory infrastructure. This ensures that clients receive reports from a globally recognised leader, which is often a critical requirement for international insurance compliance and warranty validation.

The collaboration empowers Tanzanian customers with a combined service offering, enabling East African industries to transition toward internationally recognised reliability standards. By joining forces, TES and WearCheck are significantly enhancing condition monitoring capabilities across the region's expanding industrial and energy sectors.

Mary Mwanukuzi, founder and technical manager for TES, is pleased to expand her company's condition monitoring programmes with the addition of WearCheck's testing techniques. 'In addition to oil and fuel analysis, we now offer a full suite of Condition-Based Maintenance (CBM) services using portable diagnostics, including on-site Dissolved Gas Analysis (DGA) for immediate follow-up on critical transformers, infrared thermography (IR), ultrasonic and acoustic inspections, power-quality analysis, vibration analysis and earth resistance and battery health assessments.

'We also provide specialised on-site electrical and mechanical diagnostics that complement WearCheck's laboratory expertise:

- Advanced Three-Phase Power Quality Analysis to analyse power stability.
- Stationary Battery Testing: Analysing critical backup systems.
- Acoustic Imaging: Detecting gas leaks and partial discharge.
- Earth Analysis: Testing resistance and leakage current.'

TES serves customers in Dar es Salaam as well as throughout Tanzania. The company, while recently founded, is built on a foundation of 30 years of experience in power plant engineering, including 14 years specifically dedicated to the field of CBM.

Mary believes that quality is driven from the top. 'We are proud to share that our leadership team holds advanced Category I (CAT I) certifications in Infrared Thermography and Ultrasound (Mobius Institute) and Vibration Condition Monitoring (IRD Mechanalysis). This deep technical expertise ensures that every solution we provide is backed by industry-leading standards.'



Mary Mwanukuzi, founder and technical manager for TES



The TES technical team on-site at Megapipes Solutions LTD in Kigamboni. Left to right: Philipo Haule (technician), Mary Mwanukuzi (technical manager), Terrace Tushabwe (technician) and Goodluck Mwikala (technical engineer)

## CONTACT US

Technical & Engineering Solutions, Plot 1924, Block A House 5, Mkoani Street, Bunju Ward, Dar Es Salaam

Tel: +255 787 55042

[mary.mwanukuzi@technicalengineeringsolutions.com](mailto:mary.mwanukuzi@technicalengineeringsolutions.com)

## The value of training

“There is almost no limit to the potential of an organisation that recruits good people, raises them up as leaders and continually develops them.” — John Maxwell (American leadership & personal development coach).

WearCheck offers a comprehensive programme of oil analysis and condition monitoring training for maintenance professionals at every level of the organisation. As an accredited training partner of the internationally recognised Mobius Institute since 2015, WearCheck delivers the full suite of Mobius courses, all available online for flexible learning.

Customer training courses run by WearCheck, and the duration:

COURSE	DAYS
Precision Shaft Alignment	2, incl. practical
Precision Balancing	2
Vibration Analysis ISO CAT I	5, incl. exam
Vibration Analysis ISO CAT II	5, incl. exam
Vibration Analysis ISO CAT III	6, incl. exam
Infrared CAT I	5, incl. exam
Oil Analysis 1	2
Oil Analysis 2	1
WearCheck Customised	2
Asset Reliability Practitioner (3 courses)	6 months
InfraFocus	2



For full training schedule scan the QR code.

LOCATION	JUN	JUL	AUG	SEP	OCT	NOV	DEC
<b>OIL ANALYSIS TRAINING 1 &amp; 2 - 2 &amp; 3 day courses</b>							
Bloemfontein		14-15					
Cape Town							
Durban			18-20				
Johannesburg				08-10			
Kathu	09-10						
Middelburg							
Nelspruit						10-11	
Richards Bay					06-07		
Rustenburg					20-21		
Windhoek							
<b>TRANSFORMER OIL ANALYSIS TRAINING</b>							
JHB* / CT** / DBN***	24**		26***				

For more details on course content and prices, click here: <https://www.wearcheck.co.za/training.html>.

## Free Toolbox Training sessions

WearCheck offers free monthly online training courses – Toolbox Training. The sessions, which anybody can attend, are very popular and include topics such as “How to Take an Accurate Oil Sample” and “How to Complete a Submission Form”.

Additional topics cover the WearCheck Online platform, including the platform’s convenient features and how to navigate them.

Since these sessions are held online, course attendees can log in remotely from anywhere. Each session begins at 9:00 AM and typically lasts about three hours, depending on the Q&A.

To register for a free Toolbox Training session, please email [toolboxtraining@wearcheck.co.za](mailto:toolboxtraining@wearcheck.co.za)

**2026 TOOLBOX TRAINING 2026**

How to take an oil sample & more!

26th Jun  
29th Jul

28th Aug  
25th Sep

28th Oct  
25th Nov

[toolboxtraining@wearcheck.co.za](mailto:toolboxtraining@wearcheck.co.za)

COURSE	CPD points	DATE 2	DATE 3
Vibration Analysis – CAT I *	4	May 18-22	Sep 14-18
Vibration Analysis – CAT II *	5	Jun 22-26	Oct 26-30
Vibration Analysis – CAT III *	5	Jul 20-24	Nov 22-27
Precision Balancing		Aug 24-25	Dec 07-08
Precision Alignment		Aug 26-27	Dec 09-10



All the Mobius courses can be attended online or in person at various venues throughout Africa.

For more information or to book a Mobius training course, please contact Louis Peacock on +27 82 494 9461 or [louis@wearcheckrs.com](mailto:louis@wearcheckrs.com).

\* 6 day course, with the exam written on the following Monday.

## LUBE TIP: Noria Corporation's "Lube Tips Newsletter"

The amount of water that a given fluid will absorb depends upon its base stock, viscosity, additive package, and temperature. The amount of water that can dissolve in a fluid is termed its saturation level. The saturation level for a hydraulic fluid is 200-300 ppm while for a lubricating oil it is around 500-600 ppm. Oil is cloudy when it is above its saturation level. The saturation level for a synthetic fluid is generally much higher than for a mineral base fluid.

## UPCOMING EXPOS '26

- *Mining Expo Namibia:*  
4 - 6 August, Windhoek, Namibia
- *Electra Mining Africa:*  
7 – 11 Sept, Nasrec, JHB
- *NAMPO Cape:*  
9 – 12 Sep, Bredasdorp, N.Cape



## HIGHLIGHT YOUR SUCCESS

If oil analysis has helped prevent a major failure or saved your company money, we would like to feature this in Monitor. Our writer will contact you for the details and will write the article for your approval. Simply email [marketing@wearcheck.co.za](mailto:marketing@wearcheck.co.za) and we will contact you.

## TECHNICAL BULLETIN TOPICS?

Is there a particular subject you would like to see featured in a *Technical Bulletin*? Simply email your suggestion to [marketing@wearcheck.co.za](mailto:marketing@wearcheck.co.za). Before you do this, why not check out the more than 85 titles already available on the web site: [www.wearcheck.co.za](http://www.wearcheck.co.za)

## Planet-friendly option

WearCheck no longer prints hard copies of our Monitor and Technical Bulletin publications. Should you wish to be included on our digital mailing list please scan the QR code or e-mail a subscribe request to: [marketing@wearcheck.co.za](mailto:marketing@wearcheck.co.za).



**Head Office KwaZulu-Natal**  
No. 4 The Terrace,  
Westway Office Park,  
Westville, KZN, 3610  
PO Box 15108,  
Westmead, KZN, 3608  
t +27 31 700 5460  
e [support@wearcheck.co.za](mailto:support@wearcheck.co.za)

**Gauteng Office**  
55 Angus Crescent, Long  
Meadow Business Estate ext.1  
Edenvale, Gauteng, 1609  
t +27 11 392 6322  
e [support@wearcheck.co.za](mailto:support@wearcheck.co.za)



Condition Monitoring Specialists

[www.wearcheck.co.za](http://www.wearcheck.co.za)

**South African Branches**  
Bloemfontein +27 51 101 0930  
Eastern Cape EL +27 72 510 5755  
Eastern Cape PE +27 43 736 6224  
Klerksdorp +27 83 281 6896  
Middelburg/Witbank +27 13 246 2966  
Northern Cape +27 66 474 8628  
Rustenburg +27 83 938 1410  
Western Cape +27 21 001 2100

**International Branches**  
DRC +260 977 622 287  
Ghana (Tarkwa) +233 54 431 6512  
Ghana (Kumasi) +233 54 229 8912  
India +91 44 4557 5039  
Mozambique +258 857 92 7933  
Namibia +264 81 141 7205  
UAE +971 6 740 1700  
Zambia +260 212 210 161  
Zimbabwe +263 24 244 6369

See full agent list here:



Publications are welcome to reproduce articles or extracts from them providing they acknowledge WearCheck.