

QUALITY ASSURANCE – WHY USE WEARCHECK?

At WearCheck, the world-class quality and integrity of our laboratory results have been a major priority for us for the past 40 years – we take our certifications and accreditations very seriously.

In fact, you could say that in our rigorous pursuit of superior service, we wholeheartedly embrace the wise words of Ancient Greek philosopher and scientist Aristotle, “We are what we repeatedly do. Excellence, then, is not an act, but a habit.”

WearCheck’s recognition as leaders in the predictive maintenance field is a source of pride for us, as is the fact that we are currently the only condition monitoring company on the African continent with ISO 9001 quality certification and ISO 14001 certification for our environmental management programme, as well as ISO 17025 accreditation for our laboratory-centric quality management programme. Our next step is ISO 45001 – a health and safety management system – soon to be implemented.

Excellence has long been a habit for WearCheck – we know that our external quality certification assures our customers that their investment in our condition monitoring programmes will yield top quality results.

External endorsement – More than 20 years ago, the ISO 9001 Quality Management System

New lab in Namibia



WearCheck Windhoek opened recently, after relocating from Rosh Pinah. Attending the launch were (from left) national sales manager Phillip Croucamp, diagnostician Ashley Mayer and Paul Musgrove, operations manager for WearCheck’s advanced field services division. WearCheck Windhoek is situated at 14 Lafrenz Industrial Park, Rendsburger Street or call +264 81 229 6926



WearCheck quality administrator Prinda Narasi ensures that all external quality audits are conducted regularly and that the company complies with all the requirements to retain its certifications and accreditations

was implemented at WearCheck. A reputable consultant guided our first baby steps through to our first certification by the South African Bureau of Standards (SABS) on 29 July 1996. An independent audit demonstrates a company’s commitment to quality.

ISO 9001 quality certification – an internationally recognised certification which ensures the quality of products and services of a company.

How does this benefit customers?

The ISO 9001:2008/ISO 9001:2015 standard is recognised worldwide. Some customers insist on only using certified companies because they know that management systems are constantly assessed and improved.

ISO 14001 certification for environmental management – internationally-agreed standards for an environmental management system (EMS) including improved environmental performance through more efficient use of resources and reduction of waste.

WearCheck’s first ISO 14001:2015 certificate was awarded in January 2005 after passing the external audit. We firmly believe every company should practise sustainable development to preserve the planet.

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TECHNICAL TIP: VIDEO AMPLIFICATION AND ODS AS CONDITION MONITORING TOOLS

During the video amplification (VA) process, a high speed video of a machine component in action is captured and then processed with mathematical algorithms to enable any movement that was present in the original video to be played back and amplified.

This technique is applied in cases where structural defects are suspected or where repeat failures occur with no apparent cause, giving condition monitoring technicians greater insight into the problem at hand.

To view a VA video, please follow this link:
www.wearcheck.co.za/condition-monitoring

CASE STUDY

In one specific case, repeated failures were experienced on the supporting U-beams and looseness of the square tubing support beam feet of the top shaker table.

The video capturing was done at 100FPS, allowing for capturing of movement up to 50Hz (3000cpm), that is well within the range of the dominant machine frequencies that were present.

Additional lighting was introduced from a DC source to complement the natural lighting. On all tables, the dominant vibration was related to the table action at 4.6Hz and harmonics thereof.



The camera is set up to film a top shaker table where repeated failures were experienced on the supporting U-beams and square tubing. Using video amplification and operational deflection of shape analysis (ODS), the source of the problem was identified, and a remedy was suggested

Following the video amplification, these observations were made:

- Flexing of the shaker table support beam introduced torsional forces on support beams
- Resonance on some support beams resulted in looseness of the feet of the support beams

The results were then verified with Operational Deflection Shape (ODS) analysis. With ODS, the physical vibration is measured at various points on the structure in three directions of freedom and referenced to one singular point to identify the relative motion between the points. This response is then modelled onto a 3D structure, thereby enabling the animation of the structure in question.

In this case the model was generated by capturing 298 individual readings at 110 points across the structure. Analysis of the result also indicated a severely weak support structure and torsional forces that were caused by the support beam deflection.

CONCLUSION

After applying these specialised techniques, we were able to identify the root cause of the failures that were experienced, and we were able to recommend various structural modifications.

If you are experiencing repeated defects on a machine, these advanced analysis techniques will eliminate the “thumb suck” approach to solving structural defects.

**Caught short with machine failure?
Maximise your planning horizon
for maintenance and repairs.**



WearCheck now sells and supports
SPM condition monitoring tools.
Visit www.wearcheck.co.za



Quality assurance – why use WearCheck? continued from page 1

WearCheck is green at heart

Some of WearCheck’s environmental initiatives include a practice of ‘zero process waste to landfill’. We harvest rainwater with a JoJo tank, all oily tissue is converted to refuse-derived fuel (RDF), all plastic sample bottles, caps and cores are recycled, used oil is blended to create other products, all paper and cardboard boxes are recycled, and solvent waste is blended or incinerated.

ISO 17025 accreditation for laboratory-centric quality management programme is the single most important standard for instrument calibration and testing laboratories around the world. Accredited laboratories have demonstrated that they are technically proficient and able to produce

precise and accurate test and calibration data.

WearCheck’s first ISO 17025 certificate of accreditation was awarded in June 2012, underlining our laboratory’s ability to produce precise, accurate test and calibration data such as the traceability of measurements and calibrations to national standards, technical competence of staff and maintenance of test equipment.

Internal auditors – our team of 18 committed staff members (all volunteers) undertakes the internal audit process on standards ISO9001:2015, ISO14001:2015 and 17025 by evaluating our effectiveness and efficiency prior to an external audit. They

examine our business processes, including work instructions, datasheets, forms and safe operating procedures.

The SABS controls the ISO in RSA. External audits are conducted regularly, and certification or accreditation is re-awarded every second year. Systems are in place to address any complaints or non-conformity and corrective action is implemented.

ISO 45001 is next on the WearCheck radar – this centres around our occupational health and safety management system.

Any queries? Please contact quality administrator Prinda Narasi on +27 31 700-5460 or email prinda@wearcheck.co.za.

WEARCHECK EXPANDS IN WEST AFRICA

Our Tarkwa Laboratory in Ghana was recently upgraded into a state-of-the-art testing centre and can now conduct analysis of transformer oil, coolant and fuel - amongst a host of additional services – as well as traditional used oil analysis.

Various new instruments enable the laboratory to perform extensive advanced testing, and additional laboratory technicians have been employed.

Simultaneously, we opened a second Ghana laboratory, providing world class full-service oil analysis and reliability solutions services to industries in the Ashanti region, in Kumasi. Both labs in Ghana use the same LIMS (laboratory information management system), meaning that samples can be processed in either lab, there is an in-country back-up if needed, and the turnaround time for samples from the Kumasi area is now much faster, as samples no longer need to be sent to Tarkwa for processing.

These developments by WearCheck are a direct result of increased demand for excellent condition monitoring services in Ghana.

WearCheck was founded over 40 years ago in Durban, South Africa, and today the company operates 17 laboratories in nine countries, and processes in excess of 800 000 used oil samples annually.



The WearCheck team celebrating the new Ghana labs in Tarkwa and Kumasi

Since 2013, WearCheck Tarkwa has successfully serviced Ghanaian mining operations and other industries.

Managing director Neil Robinson is delighted to be expanding business operations in Ghana. 'The industries in Ghana have welcomed WearCheck with open arms, for which we are grateful. The positive feedback from our Ghanaian customers inspired us to expand to meet the local need for our top quality laboratory services.'

WearCheck Tarkwa: Tamso Sector 7, Teberebe Junction (down the road from the original container site), supportgh@wearcheck.com.gh or call +233 54 431 6512

WearCheck Kumasi: Kaase Fanmilk Yard Industrial Area, martin@wearcheck.com.gh or call +233 54 229 8912.



WearCheck Kumasi laboratory supervisor Martin Acheampong (left) processes used oil samples in the company's new lab in Ghana, while lab technician Charles Aggrey looks on



Daniel Boakye, WearCheck Ghana's sales/technical manager, was at the launch of the beautiful new laboratory

PRODUCT PICK: ADVANCED FIELD SERVICES (AFS)

In addition to the scientific analysis of used oil and other industrial fluids, we operate as a complete condition monitoring hub, 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.

Our reliability solutions (RS) division has expanded with the addition of three completely new testing types to our Advanced Field Services (AFS) portfolio and boosting our existing services with new technology, skills and manpower.

The key functions of AFS are to create a secure safety environment, and to reduce operational risks. Our highly-skilled 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) – testing the integrity of a component without damaging it.
- Technical compliance (TC) – expert advice on regulatory requirements.
- Rope condition assessment (RCA) – inspecting the integrity of steel rope cables.

NON-DESTRUCTIVE TESTING:

Various testing techniques evaluate the properties and condition of a component or system without causing permanent damage – critical component assessments, machine condition assessments and inspection of ancillary equipment, including main vent fans, compressors, mills, pumps and conveyors.

TECHNICAL COMPLIANCE:

TC technicians advise companies how to comply with regulatory requirements. 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; international and Group Technical Standards compliance; manufacturing certified reference material; density determination techniques and quality management systems.

The TC team conducts 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:

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

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OUT AND ABOUT

Flying the WearCheck flag around South Africa and across the border has been the duty of many of our staff members, as they travel to conduct training (even offshore on a ship this time!), visit customers in unusual locations and open new laboratories in new countries. Here are some of the trips:

Winning awards 'Down Under'



Dennis Swanepoel, WearCheck's lead technician: reliability solutions, scooped the Best Speaker award at the Condition Based Monitoring conference in Australia recently, for his presentations entitled: 'One setup to solve all vibration problems', 'Practical vibration analysis' and 'An animated introduction to vibration analysis'

Transforming wind energy into power



Witnessing first-hand how a new wind farm is built was an honour for WearCheck's transformer division manager, Gert Nel, who was invited to view the CONCO Group's new Perdekraal wind farm

African Mining Indaba 2020



Seen at WearCheck's stand at Mining Indaba in Cape Town were managing director Neil Robinson (left) and reliability solutions manager Philip Schutte

Condition monitoring at Concor



Technical support consultant Quentin Gustav von Kleist conducted oil analysis training for Concor Plant Hire technicians, who earned their Toolbox Training Certification. He is pictured here (centre) with Stephen Matlala, Isaiah Thubakgale, Herbert Mabusela, Raymond Mokwena, Julia Motsehla, Johannes Matjila, Mahlako Mabusela, Ronald Jele, Judas Maebana and Paul Xaba

Ship-shape in Namibia



WearCheck training consultant Jan Backer ran oil analysis training for staff on a mining vessel – Debmairine's Grand Banks – off the Namibian coast

Oil analysis training



Technical consultant and WearCheck trainer Lutz Meyer conducted oil analysis training in Johannesburg recently

PRODUCT PICK: ADVANCED FIELD SERVICES (AFS) continued from page 3

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

reclaimers and belt wagons.

Some of our better-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.



WearCheck's AFS technician Joe Kies measures the length of the spring nest



Here, Joe Kies measures the working stroke of the brake cylinder



AFS technician Jaco Venter, of WearCheck, conducts ultrasonic testing of fulcrum plate pins



Over the last Festive Season, WearCheck Pinetown staff teamed up to give back, this time to the kiddies who live at the Ethelbert Child & Youth Care Centre, which offers full time care, rehabilitation and support for vulnerable, abandoned or abused children within KZN.

The centre currently supports 65 children aged between 18 months and 18 years. To bring a little joy into the lives of these special kids, WearCheck staff donated a total of R4 100. The company then matched these donations, and a total of R8 200 was contributed towards items on the centre's wish list and treats for the kids.

WearCheck's donations were received by staff from the Ethelbert Child & Youth Care Centre on behalf of the children. They are, from left, Antoinette Hiestermann, Vanessa Narainsamy, Aneesa Ally and Nomusa Chamane



LUBE TIP: THE IMPORTANCE OF OIL OXIDATION STABILITY

WHAT IS MEANT BY THE TERM "OXIDATION STABILITY" AND WHY IS IT IMPORTANT?

Oxidation stability is a chemical reaction that occurs with a combination of the lubricating oil and oxygen. The rate of oxidation is accelerated by high temperatures, water, acids and catalysts such as copper. The rate of oxidation increases with time. The service life of a lubricant is also reduced with increases in temperature. Oxidation will lead to an increase in the oil's viscosity and deposits of varnish and sludge.

The rate of oxidation is dependent on the quality and type of base oil as well as the additive package used. Some synthetics, such as polyalphaolefins (PAO), have inherently better oxidation stability than do mineral oils. This improved oxidation stability accounts for the slightly higher operating temperatures that these synthetic oils can accommodate.

Generally, oxidation will reduce the service life of a lubricant by half, for every 10° C increase in fluid temperature above 60° C. This concept is based on the Arrhenius rate rule, which is named for the 19th-century Swedish chemist Svante Arrhenius.

There is a little controversy concerning the oxidation stability of natural mineral base oils as determined by the refining method. There is one school of thought that suggests that hydrotreated base stocks have superior oxidation resistance and thermal stability than does solvent-refined base oil.

This is based on the misconception that since hydrotreating removes all of the potentially undesirable compounds, the base oil tends to automatically reduce deposit-forming tendencies and thereby will better resist oxidation. However, removing all of the compounds considered undesirable can in fact be detrimental.

Solvent refining results in the production of base oils, which retain some sulphur compounds that are natural antioxidants. These base oils retain a natural ability to prevent oxidation, while hydrotreated base oils must be further fortified with antioxidants in order to maintain thermal and oxidation stability. Once the antioxidants are weakened or depleted, oxidation of some hydrotreated oils can occur very rapidly.

Severely hydrotreated base oils also have poor solubility characteristics. Without proper formulation, additives may not remain suspended, and some additive drop-out could occur.

Several methods may be used to determine or evaluate the oxidation stability of an oil, which is usually regarded as the number of hours until a given increase in viscosity is noted or until there is a given increase in the acid number (AN).

[Courtesy – Noria Corporation]

WEARCHECK ABROAD



WearCheck and Swedish condition monitoring instrument manufacturers, SPM, recently signed a partnership deal enabling WearCheck to sell and support SPM products in Africa. WearCheck's RS manager, Philip Schutte, (second from left) and RS senior sales technician Annemie Willer (fourth from left) visited SPM's head office in Sweden recently to finalise the deal

CONDITION-BASED MONITORING (CBM) CONFERENCE A SUCCESS

Reliability engineers from around SA were fortunate to attend, in March, the first ever CBM conference to be held on the African continent, featuring presentations by reliability solutions professionals from Europe, Australia, America and RSA. WearCheck was the premier sponsor for this prestigious event, where the latest global RS technology took centre-stage.



Dennis Swanepoel of WearCheck (seated) chats to a group of delegates



Deon Gaarkeuken of WearCheck chats to delegate Thomas Mokoena of Sishen Mine

MAKING HEADWAY

We are delighted to welcome several new people to the WearCheck family, each of whom brings their own unique expertise to the table, enhancing our repertoire of technical skills.



RELIABLE IN RUSTENBURG

Louis Strydom has joined WearCheck's team at the North West Province branch in Rustenburg, where he provides customers with technical assistance on their condition monitoring programme and generates new business. Armed with a wealth of technical knowledge and experience, particularly in the construction industry,

Louis has completed the Concrete Technology Stage 3 diploma through the Institute of Concrete Technology in London. He has also completed an advanced management programme, WearCheck's oil analysis 1 and 2 and various other courses. Louis is pleased to align himself with the company's professionalism and strong business ethics.

Louis Strydom has been appointed as technical/ sales support based at WearCheck Rustenburg, serving the broader North West Province

CAPABLE IN CAPE TOWN

Guy Letellier has joined WearCheck's Western Cape family, where he provides technical support to Cape-based operations, generates new business and conducts training to ensure sampling techniques are correct. Guy's technical experience spans several industries, including petroleum, oil, gas, glass, paper, industrial fasteners,

steel and tubing and bulk industrial oil sales. He has also completed many courses, covering industrial relations, safety, sales, asbestos, lubrication and oil analysis as well as high performance and defensive driving. Guy's passions are the outdoors, wildlife and his family.



Guy Letellier has been appointed as technical/ sales support at WearCheck in Cape Town



LAB INSTRUMENT DOCTOR

The saying goes that "if it's not broken, don't fix it!", however, if it IS broken, then Lester Chetty is your man. As WearCheck's new laboratory instrument technician, Lester aims to minimise instrument breakdowns with preventive maintenance. He provides support to all 17 of WearCheck's laboratories, including the remote

ones, keeping the lab processes running effectively and efficiently. Equipped with a national diploma in Electrical Engineering (light current) from the Durban University of Technology and six years as a service technician at a leading instrument provider, Lester is standing by to keep WearCheck's instruments running smoothly.

Lester Chetty has been appointed as laboratory instrument technician based at WearCheck's Pinetown laboratory

MAKING CHEMISTRY

Sharista Raghunath is WearCheck's newest chemist, joining the team in the company's Durban laboratory. Armed with a master's degree in Applied Science, Sharista also has laboratory experience with a major paint manufacturer, where she focused on reverse-engineering of products, innovation of products, method

development and validation of analytical procedures, optimisation of product formulae and assistance in cost-saving initiatives. At WearCheck, Sharista is tasked with ensuring the application of the company's strict laboratory standards in terms of quality, environment, health and safety, along with research and development.



Sharista Raghunath has been appointed as chemist based at WearCheck's Pinetown laboratory



NEW TRANSFORMER HEAD

Gert Nel has been promoted to divisional manager of WearCheck's transformer chemistry division, based in Durban. Gert has been part of the WearCheck family since 2006, when he joined the company as a diagnostician in Isando, specialising in transformer maintenance. More

recently, Gert has been running WearCheck's Cape Town transformer oil analysis laboratory for several months before relocating to Durban to head up the transformer section.

Gert Nel - divisional manager of the transformer chemistry division in Durban

'At WearCheck, our staff are our primary asset,' says HR manager Michelle Padayachee, 'and we truly value their service and dedication. As a company, we are honoured to have many staff members who have worked for us for several decades, building up a vast bank of invaluable on-the-job experience and forming long-term relationships with our customers. We salute those long-serving WearCheck workers – your commitment is highly appreciated. Several people have recently celebrated notable milestones with WearCheck.'



DIAGNOSTIC DURABILITY

Diagnostician Ravi Chetty has racked up a quarter of a century's experience in the oil analysis arena, after starting his career at WearCheck as a nightshift laboratory technician. Following a stint in data processing (DP), Ravi moved to the mini-lab as assistant diagnostician back

in 1997. Two years later, he was promoted to junior diagnostician in the diagnostics team, where he remains to this day. To date, Ravi has processed over a million samples, he is a Honeywell accredited diagnostician and serves on several internal WearCheck committees.

Ravi Chetty has worked at WearCheck for 25 years

AFS ASSET

Ben Ramatla is the manager in the asset maintenance management section of WearCheck's AFS (advanced field services) division in Krugersdorp. His team conducts many reliability services, specialising in secondary injection and ultrasound testing, vibration monitoring, thermography and alignment – predominantly for

customers in the mining industry. Working his way up to vibration analyst level 3 from the early days as an electrical apprentice, today Ben operates as a senior condition monitoring technician with plenty of experience gained while working at companies and mines including Anglo-American Operations globally prior to joining WearCheck.



Ben Ramatla has worked at WearCheck for 25 years



Twenty years ago, Karen joined WearCheck as a lab assistant, then moved on to data processing. Putting her diploma in Information Technology to good use, Karen now works in software support.

Software support clerk Karen Govindsamy has worked at WearCheck for 20 years



Sample room assistant Samukelisiwe (Edna) Mthembu has worked at WearCheck for 20 years

Upskill your workforce with WearCheck training

WearCheck runs a range of oil analysis and condition monitoring training for maintenance practitioners operating at various levels within an organisation. WearCheck has been an accredited training partner for the internationally-acclaimed Mobius Institute since 2015, and all the Mobius courses can be run online to accommodate people who prefer to minimise interpersonal contact. For delegates who attend courses in person, WearCheck ensures that an abundance of sanitiser is readily available, and social distancing protocols are observed.

To book a WearCheck training course, please contact Michelle van Dyk on training@wearcheck.co.za or call (031) 700-5460 or 082 381-3321

Course	Days
Precision Shaft Alignment	2, incl. practical
Precision Balancing	2
Vibration Analysis ISO CAT I	4, incl. exam
Vibration Analysis ISO CAT II	5, incl. exam
Vibration Analysis ISO CAT III	5, incl. exam
Asset Reliability Practitioner - advocate (ARP-A)	3, incl. exam
Asset Reliability Practitioner - engineer (ARP-E)	5, incl. exam
Asset Reliability Practitioner - leader (ARP-L)	5, incl. exam
Lean Maintenance Planning	1
Operator Asset Care	1
Transformer Oil Analysis	1
Oil Analysis 1	2
Oil Analysis 2	1
WearCheck Practical (English / Zulu)	½
WearCheck Customised	

WEARCHECK IN UGANDA

Industrial operations in Uganda now have access to WearCheck's oil analysis and condition monitoring programme through our agent in Kampala. Oil samples can be delivered to API Technical Services Ltd at Plot 8 Luthuli Drive, Bugolobi, Kampala, or Filbert Kinyanda can be contacted via email on fkinyanda@apitechnical.co.ug or call +256 785 296994

WEARCHECK IN PAKISTAN

Karachi-based operations in need of WearCheck's condition monitoring expertise can drop off used oil samples at Feasible Solution in Lahore at 224/10 – 11 Muslim Town, Morr, or at the Karachi branch: 224 BC, Opposite PAF Charter, Shaheed E Millat Road, or call Maqsood Ahmed on +92 323 425 7278 or email support@wearcheck.co.za

WEARCHECK 2020 TRAINING

OIL ANALYSIS COURSES

	Oil Analysis 1: Understanding oil and its analysis	Oil Analysis 2: Report interpretation
Course length:	Two day workshop	One day workshop
Rustenburg	9, 10 June	11 June
Bloemfontein	14, 15 July	16 July
KZN	11,12 August	13 August
Namibia	8, 9 September	10 September
Gauteng	13, 14 October	15 October
Northern Cape	10, 11 November	12 November

WearCheck offers other on-site courses on request:

- WearCheck Practical (in English or Zulu) (half day)
- WearCheck Customised – oil analysis for workshop technicians

For more details on course content and prices, please view Training at www.wearcheck.co.za. To book the above courses, please contact Michelle van Dyk on training@wearcheck.co.za or call (021) 001-2100 or 082 381-3321

Oil analysis courses are presented at various WearCheck offices throughout Africa, while Mobius courses are presented by WearCheck at the ABB School of Maintenance at 2 Lake Road, Longmeadow Business Park, Modderfontein, Johannesburg.

PUBLIC / ONLINE MOBIUS COURSES

Course	CPD points	July	Aug	Sep	Oct	Nov
Vibration Analysis – CAT 1	3	27 - 30				
Vibration Analysis – CAT 2	4		17 - 21			
Vibration Analysis – CAT 3	4				5 - 9	
Precision Maintenance - Balancing	2					2 - 3
Asset Reliability Practitioner – ARP A (advocate)	2	20 - 23				
Asset Reliability Practitioner – ARP E (engineer)			30 - 4			
Asset Reliability Practitioner – ARP L (leader)						16 - 20

To book a Mobius training course, please contact Dennis on denniss@wearcheck.co.za or call WearCheck Johannesburg on (011) 392-6322.

In keeping with new sanitation requirements, all Mobius courses can be presented either online or on-site, adhering to social distancing restrictions, for a minimum of seven delegates. For on-site training, there may be an additional charge for the lecturer's travel and accommodation.

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 prinda@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 prinda@wearcheck.co.za. Before you do this, why not check out the more than 60 titles already available on the web site: www.wearcheck.co.za/useful-info/publications/technical-bulletin

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