

WEARCHECK NOW PART OF TORRE

WearCheck and our Set Point Group sister companies have been acquired by Torre Industries, a dynamic JSE-listed industrial entity underpinned by strong brands and strong products.

The integration will have no negative impact on WearCheck customers, and the company will continue with normal operations, as will the other Set Point Group companies – Set Point Laboratories, Meter Systems, Letaba Group, Amis, Pneumax and RENG.

Says WearCheck managing director, Neil Robinson, 'We are pleased to be part of Torre – a solid, well-renowned group in the industry, and one which shares WearCheck's high standards of customer satisfaction, continued investment in technology, and ongoing staff training and education.

'The integration process will be phased in over several months, and we will continue to keep you informed of any changes or improvements. We would like to reassure our customers that, as we are integrated into the Torre family, we are excited at the opportunities for development and growth that will evolve.'

Torre is an integral business in sectors such as mining, automotive, construction and industrial. The

company has shown steady growth since its listing on the JSE in 2012.

Serving customers in selected high growth markets with the provision of equipment, parts, financing and support, Torre's focus is the value-added sale and rental of branded capital equipment, the distribution of high quality parts and components, the delivery of critical support services and the provision of financing solutions in support of their customers' expansion programmes.

Torre's business units include Parts and Components which has vast product and brand solutions for the automotive, commercial, off-highway and industrial sectors, as well as aftermarket repair parts and components for earthmoving equipment in the mining and construction sectors.

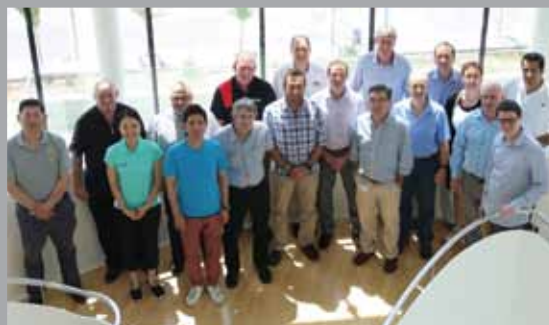


**Torre
Industries**

Experience The Support

WEARCHECK SPAIN HOSTS IWCG

Each year, the International WearCheck Group (IWCG) members gather in a different member country to share ideas on the newest technology and condition monitoring advances, to meet with international suppliers, brainstorm and to keep the thriving business network going. This year, the group assembled in Bilbao, Spain in July.



These IWCG members gathered in Spain, from left to right: David Zau (China), Bill Quesnel Snr (Canada), Ha Jang (S. Korea), Bart Coen (Belgium), Tae Kim (S. Korea), Alistair Geach (Canada), Ken Hill (USA), Jon Fazenbaker (USA), Neil Robinson (South Africa), David Sharpe (UK), Jesús Terradillos (Spain), André Verlinden (Belgium), Esteban Lantos (Argentina), Akos Nemesnyik (Hungary), Barbara Monse (UK), Bill Quesnel Jnr (USA), Adam Cutler (UK) and Jorge Alarcon (Spain)

OUT AND ABOUT

WaCA African Mining

The 7th West and Central African Mining Summit and Expo (WaCA) was held in Accra, Ghana in May. Once again, WearCheck was there, to showcase the oil analysis and condition monitoring services we provide to the burgeoning regional mining industry via our laboratory in Tarkwa, Ghana. While WearCheck's West African laboratory is strategically situated to service the goldfields, many other regional industries have also signed up for condition monitoring programmes.

Contact WearCheck Ghana on telephone +233 (0) 54 431-6512. The laboratory is at Sector 7, Teberebe Junction, Tarkwa, or visit www.wearcheck.co.za. Alternatively, email laboratory supervisor Daniel Boakye on danielb@wearcheck.com



Daniel Boakye, laboratory supervisor from WearCheck Ghana, explains the concept of oil analysis to delegates at the recent WaCA Mining summit in Accra

ZIMEC



With thriving mining and energy sectors, Zambian industries are making good use of WearCheck's two laboratories at Lumwana Mine and Kitwe. WearCheck Zambia had a stand at the recent Zimec exhibition in Lusaka, Zambia. WearCheck Kitwe's sales and technical support consultant, Boniface Yuwama was on hand to meet delegates

South African Institute of Tribology (SAIT)



The SAIT held their annual conference in Pretoria earlier this year. A full contingent from WearCheck was in attendance, and Steven Lumley (WearCheck technical developer) presented a paper. The WearCheck team is pictured here at the SAIT dinner

POWER-GEN Africa (PGA)

POWER STRUGGLE? USE GOOD CONDITION MONITORING!

The WearCheck team at PGA 2015 had an important message: when preventive maintenance is not done regularly on machinery, it can lead to catastrophic component failure, which, in turn, can have a disastrous effect on a country's power supply.

In 2008, more than 90% of South Africa's electricity was produced from coal, with nuclear energy making up most of the balance. Growing energy demand and concerns over the environmental impact of coal-fired power generation has led to the diversification of South Africa's energy portfolio through the incorporation of renewable energy technologies such as solar and wind power.

The generation of most types of energy

uses machinery with moving components, such as wind turbines, and gas engines, all of which function optimally with a good condition monitoring programme in place.

WearCheck is THE one stop shop for condition monitoring and reliability solutions!



Power people – the WearCheck team at PGA in Johannesburg in July were (from left) diagnosticians Daan Burger and Quinton Verster, reliability solutions manager Philip Schutte and Steven Lumley, technical development

BAUMA

WearCheck had a stand at BAUMA 2015, which was in September in Gauteng. Many delegates came and met our diagnosticians and reliability solutions technicians, and they were able to experiment with a thermography camera, look through a microscope, and witness an alignment rig in operation as it measured vibration.

WINDABA

Once again, WearCheck will be showcasing our wind turbine analysis services, amongst other condition monitoring tools, at the annual Windaba expo from 4 – 5 November in Cape Town. This year's theme is 'Powering the winds of change.' Please come along and meet us.

PRODUCT PICK: GAS ENGINES



By Steven Lumley, technical developer for WearCheck

Modern day life is unimaginable without electricity. It lights our houses, provides heat, and powers most equipment used in our homes and offices, as well as machinery in factories.

Coal plays a vital role in electricity generation worldwide as it is the most widely-used primary fuel source, accounting for about 36% of the total fuel consumption of the world's electricity production. In South Africa, the figure is higher, and approximately 77% of South Africa's primary energy needs are still provided by coal-generated power.

Growing energy demand and concerns over the environmental impact of coal-fired power generation has led the Department of Energy (DoE) to investigate the use of alternative energy sources both renewable and non-renewable. These alternative technologies will also include the utilisation of natural and biogas for power generation.

This search for inexpensive and reliable energy has prompted interest in natural gas which, in turn, has increased the popularity of stationary gas engines. It has also led to the growing use of alternative gases, such as landfill gas and biogas for power generation.

While providing some of the same benefits as natural gas, these alternate gases contain contaminants that present challenges to the efficient running of these engines and their lubricants. As a result of this, gas engine oils need to withstand the various levels of oil degradation caused by the gas fuel combustion process. This is even more important in applications where fuel quality can vary significantly over time, such as gas engines running on biogas.

Due to these variations in fuel quality, it is

vitaly important that oil samples be taken regularly to assess the oil's condition, rate of deterioration and ultimately determine the optimal oil drain intervals.

Oil analysis provides a wealth of information about the lubricant's condition, contaminants and the mechanical wear taking place. When oil analysis results are trended over a period of time potential problems can be identified and this in turn helps machine-operators to schedule the appropriate maintenance and avoid costly repairs and reduce machine downtime.

For a more in-depth discussion on gas engine oil analysis, please view copies of WearCheck's Technical Bulletins 60 and 61 at www.wearcheck.co.za/info/technical_bulletin



Durban solid waste landfill gas to electricity plant courtesy of Clarke Energy



Image of a new and siloxane coated piston courtesy of Clarke Energy

LUBE TIP: NITRATION – WHY IT'S BAD

Nitration is the degradation of oil in the presence of nitrogen compounds. Nitration is a common mode of gas-engine lubricant degradation. It is a particular problem with higher temperature 4-cycle engines. Nitrogen oxides are typically formed during fuel combustion. These nitric oxides react with water to form nitric acid. The formation of nitric acids can lead to a corrosive environment to exposed engine surfaces. Nitration also leads to the formation of deposits and sludge.

Mini-lab provides maxi service

Did you know that at WearCheck in Pinetown, in addition to the full-service primary laboratory, there is also a highly specialised mini-laboratory, which provides niche analysis services?

While the core function of the mini-lab is to do the preparation for aircraft filter analysis, it also provides several other monitoring services and speciality tests on samples that are not generally processed in the main laboratory.

Furthermore, the three highly-specialised technical staff that operate the mini-lab also conduct field visits to industrial customers in a variety of industries, such as Illovo, Tongaat Hulett, Gud filters, and more. They take samples from gearboxes, turbines, compressors and any other component that needs monitoring.

The on-site sampling service, as one of the main portfolios of the mini-lab, is highly sought-after by customers.

Some of the specialty tests are the analysis of grease, coolant, Karl Fischer moisture, VPR varnish potential rating, aircraft and refrigeration.



Trevor Pillay (left, at microscope) is the senior mini-lab technician, and has been at WearCheck for 26 years. With him is field and lab technician Shashay Rampersad, who has clocked up 13 years at WearCheck

Field and lab technician Shane Goslin, who joined the company at the end of 2014, prepares a tray of engine coolant samples for testing. Shane heads off to the Democratic Republic of Congo later this year to open the next WearCheck laboratory, to be situated at the Kibali gold mine site



TECHNICAL TIP: THERMAL IMAGING AND ITS APPLICATIONS

BY DENNIS SWANEPOEL, RELIABILITY SOLUTIONS TECHNICIAN



Thermal imaging is a diagnostic condition monitoring technique that involves capturing images in the infra-red spectrum (wavelengths 700nm to 1mm, 430THz – 300GHz) that are not visible to the naked eye. The images record the infra-red radiation from an object that depicts the temperature radiated by the object. A thermographic camera is used to capture the images.

The images are then assessed by trained technicians, and high risk areas are flagged. For example, a thermal image of a moving component in a machine, or an electrical wiring system, may show abnormally high temperatures in certain areas. This could indicate that unwanted friction is occurring in the moving component, which could lead to wear and - ultimately - machinery failure; or that the wiring in an electrical system is faulty, and could lead to a fire.

In these cases, the object must be opened up, inspected, and the fault corrected.

APPLICATIONS

Applications of thermal imaging include, but are not limited to:

- Buildings (insulation and moisture detection)
- Electrical (electrical overheating, imbalance, etc.)
- Mechanical (friction, insulation, piping, quality control, etc.)
- Medical (cancer detection, injuries, laser treatment, etc.)
- NDT (non-destructive training) (delamination, coating, corrosion, etc.)
- Insurance certification
- Process monitoring
- Manufacturing
- Night vision

SPECIAL CONSIDERATIONS

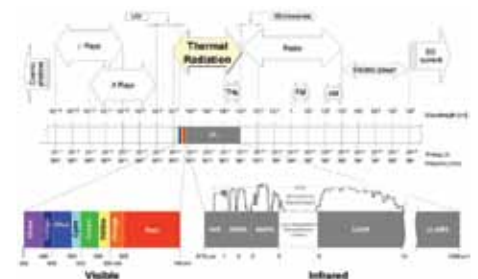
- It is critical that temperature measurement is done on line of sight. Also, temperature cannot be measured on an electrical termination inside a closed cubicle or behind perspex/untreated glass. Thus, special thermal windows need to be installed at times to facilitate inspection, if safety does not allow clear line of site on the object being scanned.
- The image that is captured must be in focus
- Object emissivity needs to be correctly set. Emissivity is the ability of an object to emit thermal radiation. This must be established by the thermographer prior to scanning each component.

ADVANTAGES OF THERMOGRAPHIC IMAGING

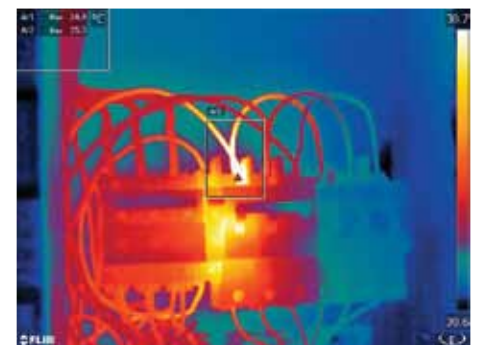
- Visual images can be stored for future reference and used for reporting functions
- It is not limited by the object's component material. (ferrous, nonferrous, organic)
- It is a non-contact method of measuring temperature. In the majority of applications, it could be fatal if contact is made with the object where the temperature is measured.
- It is a non-destructive test method

Some examples of thermal imaging that WearCheck has done recently include monitoring a transformer cooling defect, paint batch plant motor scanning, kiln scan, electrical application where a major fire was prevented.

For more information, please contact the reliability solutions division on tel (011) 392-6322 or email support@wearcheck.co.za



The chart shows the spectrum of wavelengths of light, and where that measured by the thermal camera (infra-red - 700nm to 1mm, 430THz – 300GHz) sits in comparison to the light that is visible to the naked eye



The bright yellow light in the centre of the image shows high temperatures on part of an electrical system, which, on subsequent inspection, was found to be a loose connection on the termination point

WearCheck offers new on-site training courses

If you need an answer to your reliability solutions qualifications queries, then look no further than WearCheck. Customers can now undergo training in reliability improvement and vibration analysis, using the world-renowned Mobius Institute material and Mobius-certified training.

Technicians who will benefit from this training are those working in any industry which uses rotating equipment, including mining, petrochemical, power generation and others.

WearCheck's Mobius-certified trainers are reliability solutions manager Philip Schutte, and Jozua Joubert from Esteq. They offer one week courses ranging from basic up to level two.

WearCheck is certified as the Mobius training centre for the entire African continent, apart from SA, DRC and Kenya. Mobius courses are run on demand from customers, on-site at the customer's premises, pretty much anywhere in Africa.

The full Mobius course includes compulsory six month practical training sessions in order to progress to the next level.



One of WearCheck's qualified Mobius instructors is reliability solutions manager Philip Schutte, offering customers the opportunity to become certified in the various facets of reliability solutions, on-site. Philip has over 20 years' experience in the reliability solutions field

WEARCHECK WESTERN CAPE WELCOMES NEW CLIENTS, NEW STAFF

WearCheck's Cape Town office, which moved to new premises several months ago, has recently welcomed new customers and continues to serve organisations from the maritime, road transport, aircraft and electrical, construction and earthmoving sectors.

Now situated on the corner of Viking & Odin Drive, Thor Gardens, Thornton in Cape Town (Opposite the Epping Market), WearCheck Cape Town is highly accessible from the port as well as the surrounding industrial areas.

Cape Town branch co-ordinator Quintin Ras, who recently relocated to the Western Cape, has five years' experience in oil, fuel and transformer oil analysis, including supervising WearCheck's Steelpoort branch since 2011.

WearCheck Cape Town offers on-site sampling option in addition to the full spectrum of WearCheck oil analysis and reliability solutions services. Greases, fuels, coolants, filters and transformer oils are also analysed, plus the provision of many

alternative monitoring options, such as vibration, thermography, balancing and alignment, create a one-stop condition monitoring service.

A number of major marine companies are serviced by WearCheck Cape Town, among them Safmarine, Irvin & Johnson and Portnet Marine Services. Customers from other industries include the Koeberg Nuclear Power station, the Western Cape Department of Transport and several municipal and provincial organisations.

Says Ras, 'We are excited to be working with some big new clients from a range of industries, particularly in the maritime sector – with customers ranging from international shipping lines to local fishing fleets'

WearCheck Cape Town's office telephone number remains the same: tel: (021) 531-4540. Quintin Ras can be reached via email on quintinr@wearcheck.co.za or cell phone 082 381-3321.



The WearCheck Cape Town team is on hand to welcome you to their offices opposite the Epping market. They are, from right to left, branch co-ordinator Quintin Ras, newly-appointed customer support assistant Jandeleee De Beer and driver Hoosain Sydow. (Mariette left to relocate to Ceres, and Jandeleee has joined the team in her place)

PARTICLE COUNTING (ISO 4406) ON DIESEL SAMPLES

WearCheck processes approximately 500 diesel samples per month in a specialty laboratory in Johannesburg. These are tested against SANS 342:2014 specifications as well as other applicable standards such as ASTM.

Particle counting, as per ISO 4406 (fluid cleanliness), does not make up part of this specification which is why this test is not traditionally carried out on diesel samples. The IP440 (Institute of Petroleum) test method is preferred.

This method is specified in SANS 342:2014

rather than ISO 4406 which uses an optical particle counter because diesel has a very low viscosity and particulate matter settles very quickly.

Samples will be tested according to the ASTM D7619 test method, which covers sample preparation and ensures consistency and validity when measuring a particle count on a diesel sample.

Although ISO 4406 is not sanctioned as a method for measuring fuel cleanliness by SANS, many customers and particularly equipment OEMs have cleanliness limits based on this method.

Because particle counting is a well-known and established test method for lubricants

and has increasing popularity with diesel testing, WearCheck will introduce this test as a standard on all diesel samples.



A lab technician operates one of WearCheck's particle counters, which measures the cleanliness of diesel samples as per ISO 4406

Continued from page 4

The Mobius Institute is a worldwide provider of education in reliability improvement, condition monitoring and precision maintenance, to industrial plant managers, reliability engineers and condition monitoring technicians.

The training facilitates the successful implementation by plants, of reliability improvement programmes through delivery of more easily understandable and comprehensive training. This includes reliability, alignment, balancing and vibration analysis via various education programmes.

The Mobius Institute Board of Certification (MIBoC) is ISO/IEC 17024 and ISO 18436

accredited, providing globally-recognised certification to category I-IV vibration analysts in accordance with ISO 18436-1 and 18436-2.

Mobius training is offered in 153 countries, and is recognised the world over as the standard for reliability solutions technicians. Mobius courses are run by WearCheck on demand. Costs include the examination fee for CAT I and II, and are as follows:

- One day on-site condition monitoring overview: R15 000.00 (RSA only)
- Four day non-certified basic: R10 000.00 preparation for CAT I (including RSA)
- Five day CAT I: R15 000.00

- Five day CAT II: R16 450.00

*prices exclude VAT, and are valid until the end of 2015.

Note: the condition monitoring overview courses do not include any training material, and a minimum of six candidates is required for all training courses. There may be an additional charge for the lecturer's accommodation and travel.

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

MAKING HEADWAY

The reliability solutions (RS) division offers a variety of preventive maintenance techniques that help machinery to function optimally. Among these are thermal imaging, vibration monitoring, laser alignment, balancing and many others. The need for these services is continually growing, and, to keep up with the demand, the RS division has also grown. Meet some of the new recruits:



Ruan Scoombie is an RS technician based at the Springs offices



Tiaan Burger is an RS technician based at Camden Power Station



Sipho Zwane is an RS technician based at Camden Power Station



Tiaan Heineman is RS Technician based at Letabo Power Station



Saskia Coetzee is an RS administrator at WearCheck Johannesburg



Danica Kuhn handles sales and technical support at WearCheck Middelburg



David Schumacher is WearCheck's newest diagnostician, and is based at the Pinetown laboratory



Megan Nunez has been appointed accounts assistant at WearCheck Pinetown

And it's not only the RS division that is growing...the oil analysis section is also expanding. Here are some new faces:

WearCheck Middelburg gets new lease on life

WearCheck's Middelburg facility has recently undergone a major revamp, and now boasts a spacious new laboratory with two sections – a dedicated ICP room and a main laboratory containing all the other instruments. The company also invested in new laboratory equipment that has increased sample turnaround time,

A brand new ICP (Inductively Coupled Plasma spectrometer) has been installed at the laboratory, effectively doubling the laboratory's capacity.

ICP spectrometry analysis provides high-speed detection and identification of trace elements at very low concentrations in oil to determine the levels of wear metals,

contaminants and oil additives in lubricating oils.

WearCheck Middelburg also recently acquired a brand new generator. This helps to bypass any fallout caused by the current power crisis in the country, which has resulted in ongoing and unpredictable load shedding. This now means all of WearCheck's laboratories have backup power supply, ensuring continuous uptime and uninterrupted service to our customers.

WearCheck Middelburg's contact details remain the same: tel: 013) 246-2966 and physical address: Unit 7A, 13 Mandela Drive, Nungu Industrial Park, in Middelburg.



The beautiful new interior of WearCheck Middelburg's laboratory



The dedicated ICP laboratory at WearCheck Middelburg

SMALL WORLD

WearCheck in South Africa receives interesting technical queries from far-flung locations the globe. Some recent examples include:

- An enquiry from a mine manager in Mauritania wanting oil analysis (He worked with WearCheck's diagnostic manager John Evans 30 years ago in Orapa, Botswana)
- An agent in Pakistan interested in sample analysis

Good innings

Dedication and loyalty – these are two qualities that really stand out amongst the WearCheck staff, many of whom have served the company for a very long time.

HR manager Michelle Padayachee is grateful for the invaluable commitment and support from the WearCheck team. 'We acknowledge all staff who have served for many years, and in particular, those who have recently reached noteworthy milestones.

'This time round, we recognise Karen Govindsamy, Nomusa Madlala, and Edna Mthembu, all of whom are based at our Durban branch, and all of whom have worked at WearCheck for 15 years – congratulations!'



Software support Karen Govindsamy has worked at WearCheck for 15 years



Stores cleaner Nomusa Madlala has worked at WearCheck for 15 years



Sample room assistant Edna Mthembu has worked at WearCheck for 15 years

Mokopane monitors mines and more

The WearCheck team at Mokopane, Limpopo Province, has been servicing the regional mining industry with on-site oil sampling and analysis for the past two and a half years.

Listing some big mining conglomerates as their main customers, including Anglo, Mogalakwena and Polokwane Smelter, the condition monitoring team has built a solid reputation in the local industry for helping keep maintenance costs in check and avoiding component failure through their excellent predictive maintenance programme.

In addition, customers in other fields make use of the condition monitoring programme, such as industrial, transport, electrical, aircraft and others.

Samples are processed by full-service laboratories in the WearCheck network. In addition, the full complement of reliability solutions is offered, with monitoring services ranging from vibration monitoring and balancing, to laser alignment and thermography.

WearCheck Mokopane is staffed by technician Jovan Combrinck and sample assistant Amos Aphane. They can be reached via cell phone on 081 013 2162, while the office is located at 124 Thabo Mbeki Street, Mokopane.



WearCheck Mokopane has helped boost the bottom line of the Limpopo mining industry through the scientific analysis of used oil – a predictive maintenance tool which assists in avoiding disastrous downtime. Pictured here are technician Jovan Combrinck and sample assistant Amos Aphane

WIN! WIN! WIN!

Our annual customer survey has been sent out, and can be completed either online or on a hard copy and posted/faxed/emailed to us.

The research serves to open the dialogue with you, our customers, in a sincere attempt to discover what we are doing right, how and where we can improve, and to measure the general satisfaction levels across a wide spectrum of our services and products.

This is a win-win situation – customers get the improvements and adjustments to suit their needs, while WearCheck is able to evolve

and develop in a more efficient way. Everyone's happy!

To thank you for taking the time to give us your valuable feedback, each year we award a prize to a respondent. This year, there is a Samsung Galaxy Tablet up for grabs, valued at over R6 000! To ensure your name is in the lucky draw, please return your completed customer survey forms by the due date to WearCheck.

Watch this space in the next issue of *Monitor* to see who the lucky winner is!

2015 TRAINING COURSES

VENUE	Oil Analysis 1 Understanding oil and its analysis (2 days)	Oil Analysis 2 Report interpretation (1 day)
Gauteng	20 – 21 October	22 October
Northern Cape	17 – 18 November	19 November

COSTS

Oil Analysis One covers two full days and costs R4 999. Oil Analysis Two and the NetCheck course cover one full day each and each costs R2 500. [Please note that the Oil Analysis Three course will not be run this year]. All courses include course material, refreshments, giveaways and certificates. Prices exclude VAT and are subject to change.

BOOKINGS

For more details on course content, view Training at www.wearcheck.co.za. For bookings phone Kay Meyrick on (031) 700-5460 or email training@wearcheck.co.za.

ON-SITE TRAINING

All courses can also be presented at the customer's premises for a minimum of seven delegates.

WearCheck also offers two more on-site courses:

- WearCheck Practical (in English or Zulu), a half day course costing R600.00 plus VAT per delegate
- WearCheck Customised – oil analysis for workshop technicians, a full day course costing R1450.00 plus VAT per delegate.

For on-site training, there may be an additional charge for the lecturer's travel and accommodation, if needed.

ARRANGE A TRAINING COURSE NEAR YOU

Training courses can also be arranged in any of the following areas:

Bloemfontein	Rustenburg
Cape Town	Steelpoort
Kimberley	Botswana
Makopane	Namibia
Middelburg	Tanzania (Mwanza)
Nelspruit	Zambia (Kitwe)
Port Elizabeth	

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 61 titles already available on the web site: www.wearcheck.co.za/info/technicalbulletin

JOINING TOGETHER TO SUPPORT THE PLANET

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