

## SAIT Newsletter, September 2022

### TRIBOLOGY

Tribology rebrands & repositions in Africa! At a well-attended AGM on 31 August 2022 the SAIT announced that it will become the Southern Africa Institute of Tribology! Emerging from two years of pandemic and lockdowns, the SAIT has registered a new Memorandum of Incorporation (MOI) as a non-profit organisation.

With renewed focus on 'Reducing the Total cost of Ownership' the SAIT will be revising the SAIT Website, introducing chat forums for members, and presenting regular meetings.

For more information you can visit <https://www.sait.org.za/events/aggm/>

Watch this space for further updates.

### VLS-- UK Outfit

VLS-- UK Outfit - Verification of Lubricant Specifications is an independent organisation providing a credible and trusted means to verify lubricant specifications. The UK VLS welcome page states 'At VLS we investigate and resolve lubricant product complaints concerning incorrect performance claims, misleading technical specifications and products that do not meet OEM or stated industry standards.' This is what we need to be established in South Africa.

The SAIT working committee had a virtual meeting with the VLS-UK President and Technical team to get additional background on how they operate and the successes that have been achieved.

The meeting was extremely useful, and the way forward has been mapped out. We

will be drafting a constitution in the coming weeks and form an association. Thereafter the association will be formally launched, and members sought to support this initiative, which will assist members to manufacture and market quality products, while signing-up and adhering to a code of conduct that ensures lubricant quality.

Please visit this link and be inspired by the role that Tribology can play.

<https://ukla-vls.org.uk/what-we-do/>

Let's support the establishment of a South African VLS!

## Contamination Corner

A waste of lubricant – excessive application of the incorrect grease



The correct spec grease for a heavy-duty truck fifth wheel coupling is an EP2 (extreme pressure) black, sticky, graphite impregnated grease. And only a small cupful of EP2 grease matches the task. The picture here is an environmental horror that gets swept off the fifth wheel falling into the truck chassis and eventually the road surface, which in turn creates slippery patches and road safety hazards. It's all about friction.....in the coupling and on the road.

## International Events

**For a full list** of upcoming international events please visit [Tribonet Conferences](#), where links take you to each event in full detail.



## **TERMINOLOGY GLOSSARY**

In common with other technologies, lubricants and lubrication have developed their own terminology or jargon, which frequently confounds the newcomer to this field. To this we must also add the terminologies surrounding friction. To demystify matters in this often-confusing area, the following definitions of some commonly used terms are offered.

We are re-opening the file on terminology glossary – it's a living file and you are welcome to comment and contribute:

### **CCS**

The Cold Crank Simulator is a test method that approximates the viscosity performance of engine oil during cold start-up. It is an intermediate shear rate viscometer.

### **Centistoke**

The centistokes (cSt) is 1/100th of a Stoke (St), which was the fundamental unit of kinematic viscosity in the old CGS System, but is now considered to be a derived unit. In the currently used SI System the fundamental unit is millimetre squared per second (mm<sup>2</sup>/s), which is equivalent to the centistoke.

### **Cleveland Open Cup (COC)**

A test for determining the flash point and fire point of petroleum products, with the exception of fuel oil and products with flash below 79°C (175°F).

### **Cloud Point**

The temperature at which a cloud of wax appears when a lubricant sample is cooled under prescribed conditions. It indicates the tendency of the material to plug filters or small orifices under cold weather conditions.

## **2022 SAIT Training**

**Follow the path from data to information and into knowledge.**

Please visit our website for further information <https://www.sait.org.za/events/training/> or email us at [secretary@sait.org.za](mailto:secretary@sait.org.za) or [admin@sait.org.za](mailto:admin@sait.org.za).

## SAIT Membership

If you are not already a SAIT Member, please consider joining us, to help save your machinery running costs, and to benefit the planet. It has recently been said that Tribology is The Science of the Future!

There are several categories of membership, with varying benefits for you, the Members. To find out more about SAIT Memberships, please go to <https://www.sait.org.za/membership/benefits/>, or email [secretary@sait.org.za](mailto:secretary@sait.org.za) or [admin@sait.org.za](mailto:admin@sait.org.za)

Join us now, to learn more about the all-essential triumvirate of **Friction, Lubrication and Wear!**

## Literature / articles of interest

The following articles may be of interest - please click on the images below for the links.

## Tribology & Lubrication Technology

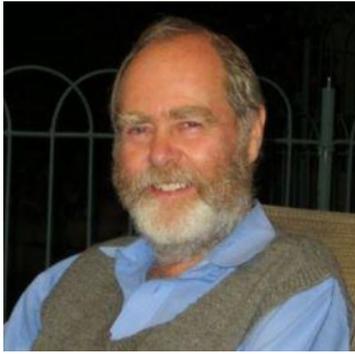
**Tribology & Lubrication Technology (TLT)** is the official monthly publication of STLE and was created to aid in the technical education and professional development of STLE members and industry colleagues. Through its print and digital editions, TLT delivers world-class technical content to some 15,000 lubricant professionals each month. Each issue includes feature articles, best practice analyses, industry surveys, interviews with leading lubrication professionals, emerging-technology reports, lubrication fundamentals and much more.



## SA Mechanical Engineer



Please share other useful articles and publications that may be of interest to members.



## From the President's Desk

See the President's AGM report on the website  
Patrick Swan

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## Parting Shot!



Adams' Anti-Counterfeiting Team deals another blow to manufacturers of counterfeit engine lubricant and oil products – that's the note on the Adams & Adams website published August 12, 2022.

After thorough investigations by the firm's internal private investigators, the Anti-Counterfeiting Team of Adams & Adams recently collaborated with the HAWKS (SAPS) in two provinces to clamp down on syndicates dealing in counterfeit engine lubricant and oil products.

In the first operation in Gauteng, the team managed to identify and take down a manufacturing facility where recycled oil was cooked, decanted into branded drums, sealed and onwards sold. Two suspects were arrested and remain incarcerated while the State opposes their release on bail.

[Weblink](#)

Adams & Adams final observation: 'With oil and commodity prices skyrocketing due to the Ukraine-invasion, it can be expected that more counterfeit goods dealers will move to take their sourcing activities in-house and start their own manufacturing enterprises.'

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**We Want to Hear from YOU**



1. Please let us know what topics are of interest to you.
2. Please submit interesting paragraphs or articles that we can share with the SAIT community, by sending them to [secretary@sait.org.za](mailto:secretary@sait.org.za) for forwarding to The Editor. This will assist in disseminating information to all involved in Tribology.
3. Please let us know what would interest you for technical sessions or webinars
4. Please let us know of interesting presenters from whom you would like to hear.

**The SAIT Mission:**

"Promoting knowledge and skills transfer in friction and wear to achieve a lower Total Cost of Ownership (TCO)."

**SAIT President:** P.G. Swan

**SAIT Directors:** D.P. Beard; D.J. Gamble; P.G. Swan