



YELLOTEC

Lubrication Specialists

Our comprehensive range of oil analysis services, products and training assists reliability engineers with condition monitoring and identification of machine wear.

Yellotec owns and runs a full commercial oil analysis laboratory based in Boksburg.



Our laboratory, which was originally established to focus specifically on used oil analysis of mobile equipment classed under the generic name of yellow equipment, which includes mining, quarrying, earthmoving and construction equipment and vehicles, hence the name Yellotec.

It represented an ideal starting point since this category of equipment is generally accepted as representing the most challenging class of oil analyses due to the harsh environmental conditions, operator-induced problems and severe duty cycles.

Today, Yellotec provides the full range of tests and services include elemental spectroscopy, viscosity, fourier transform infrared spectroscopy, water-in-oil measurement, ferrous quantification, ferrography, TAN, TBN, fuel dilution analysis and coolant analysis. Our diagnostic staff are then able to diagnose potential failures and recommend action to prevent major failures and downtime.



Failure Prevention

We believe that oil analysis should ultimately be managed as a tool and safety net to ensure that equipment is maintained optimally, rather than form part of a systematic reaction to common problems. We actively assist customers to move away from reactive behaviour, toward proactive measures to prevent failures.

While it is crucial for Yellotec customers to react to specific problems identified by the analysis, Yellotec's management systems and reports allow customers to more easily focus on the root causes and key problem areas, thus allowing their organisations to gain total control over their fixed or mobile plant.

Oil is the "lifeblood" of machines and equipment, and through routine testing and analysis Yellotec can:

- Identify minor problems before they become major failures
- Extend equipment life
- Maximize asset reliability
- Extend oil drain intervals

Services Offering



Oil analysis on all mobile and fixed assets.

- Pricing is at a fixed rate for all oil samples (Oil, Grease and Coolant Samples).
- The sample price includes the analysis of filter cut-outs if supplied with the sample bottle (filter bag supplied with each bottle).
- Yellotec perform wear debris analysis on 100% of samples without exception or extra cost.
- Pricing is at a fixed rate for all Diesel Samples.
- Service to take samples on site is also available and will be costed on travelling distance and labour hours required.
- Couriering of samples from site to the Laboratory is discussed and arranged according to Customer specific requirements.



Technical Offering

- Historical data can be imported as long as the data can be supplied in a flat file format (*.csv, *.txt, *.xls)
- Monthly Reporting can be customised to your requirements.
- Online report viewing is available via a Google drive.
- Sample Turnaround time will be guaranteed 72 hour after receipt of samples at the Lab in Boksburg.

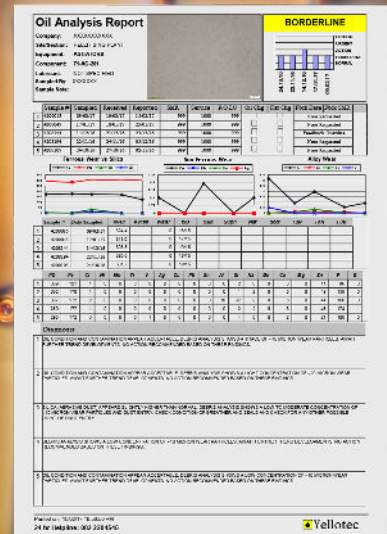
Test Slate

Oil Analysis Routine Tests

- Kinematic Viscosity @ 40 °C
- Kinematic Viscosity @ 100°C (Engine Oils Only)
- Elemental Analysis
- Ferrous Quantification (FQ)
- Wear Debris Analysis
- FTIR (Engine Oils Only)
- Water detection and Quantification
- ISO 4406 Particle Counting
- Fuel Dilution

Oil Analysis Exceptional Tests

- Total Acid Number (TAN)
- Total Base Number (TBN)
- Water by Carl Fischer
- Oxidation by FTIR



Product Offering

Yellotec employs a large complement of sale staff, all of which are fully trained specialists in the operation, use and application of the instruments and software on offer.

Online Oil Sensors



Laboratory Equipment

- Viscometers
- ICP
- Ferrous Quantifier
- Microscopes
- etc.

Laboratory Setup

- Full Laboratory
- Mini Laboratories:
- Wear Analysis / Ferrous
- Contamination / Water
- Physical Properties

Training Offering

Our Oil Analysis training is given by experienced industry professionals, and extends from professional qualifications (ICML MLA and MLT) to short-form courses for a better understanding of Oil Analysis.

Field Lubricant Analysis Noria: Level 1-3

These courses are designed to prepare you for the ICML Level 1, 2 and 3 Machine Lubricant Analyst (MLA I, II, III)

Oil Analysis Series

The Oil Analysis series provides the necessary knowledge and practical skills to derive maximum benefit from your oil analysis programmes.

Machinery Lubrication Noria: Level 1-2

These courses are designed to prepare you for the ICML Level 1 and 2 Machine Lubricant Technician (MLT I & II)

We also offer a full spectrum of training courses in Condition Monitoring disciplines, as well as product specific and Reliability Engineering specific courses.

Oil-In-A-Day

This one day, on-site training is aimed at artisans / trainees / foreman that will provide practical knowledge on the basics of Oil.

Includes:

- Affordable - 30 candidates per day
- Attendance Certificate per delegate
- Manual to keep.

Training Modules and Topics :

- Maintenance Strategies
- Lubrication Excellence
- Tribology with Machine Reliability
- Engine Lubrication and Lubricants
- Contamination
- Particulates and damage caused
- Sampling methods
- Storage and Handling
- Understanding Oil analysis report

About Yellotec

Yellow Technical Services (t/a Yellotec) was founded in 2004 by Toni de Sousa, with its focus on oil analysis for mobile equipment in the earth moving industry, generally known as yellow plant, hence the name Yellotec.

Toni founded the original Predict Engineering Services, later known as ABB Predict, and was responsible for assembling the key elements that led to the growth and success earned by Predict.

In time, Yellotec returned to its roots and again offered all of the services and products employed by companies pursuing condition based maintenance strategies, including Oil Analysis, Lubrication Consulting services, Safe Fluid Management, vibration analysis, infrared thermography and ultrasound.

As a result of Yellotec's strong basis in Lubrication related fields of expertise, Noria awarded Yellotec the sole rites to represent them in the Sub Saharan Africa region since the inception of the company in 2004.