



FUEL DYES FOR ALL YOUR PETROLEUM NEEDS



Petroleum
Logistics Ltd.
diesel and petrol dye

Fuel dyes for all your petroleum needs

Petroleum Logistics Ltd. manufactures a wide range of liquid solvent soluble dyes used for quick visual identification. Our security markers help our customers in the fight against crime.

Excellent custom-made services

We have the expertise to offer a high speed worldwide service in manufacturing petroleum dyes and additives tailored for our customers' needs and specifications.

Unique R&D capabilities for extensive research

Our unique R&D centre constantly develops and commissions new products and processes that respond to a dynamic market place and the international legislation.

Markers help fight against fuel theft

Our colourless markers are a great tool in the fight against fuel fraud. They are invisible and easily detected at very low levels in the field.

Part of a sustainable future

Our products enable our customers to comply with regulations set up by national or regional authorities. We make sure to take the best possible approach to protecting the environment.





About us



Petroleum Logistics Ltd. offers petroleum additives for the international petroleum industry and has over 20 years of experience to its credit.

Our petroleum additives range covers - Antioxidants for diesel, gasoline and biodiesel, visible colourful dyes, petroleum markers, fluorescent petroleum dyes and invisible petroleum markers.

We are a flexible and customer focused company providing a first class customer service. We aim for world class performance by understanding and serving our clients, by continuously improving quality, health and safety, protecting the environment, and optimising the supply chain.

Our expertise



Petroleum Logistics Ltd. offers products specifically developed for fuel that keeps clients safe. We offer a wide variety of dyes and fuel additives for national and international petroleum markets designed to meet current legislation. In addition to our colour matching capabilities, we also offer a fast track service of unique products tailored to meet our clients' needs and specifications.

We have been actively involved in the transport industry worldwide with our transportation fuel logistics capabilities, such as competitive fuel transportation and transportation security products. Our main clients are oil companies, transport companies and fuel terminals, local governments, police forces and the military.

Our range of dyes and markers has been designed to meet national fuel marking legislation and customer requirements throughout the world.

Our capabilities



Petroleum Logistics Ltd. offers products developed by its own Research and Development centre. Our teams of engineers, chemists and customer support experts continuously develop and commission new products and processes to help meet customer needs in a dynamic market place. We offer cost effective, high-speed reliable solutions that help identify and tag fuel for fraud detection.

We work closely with our global network of agents and distributors to provide excellent technical and commercial local support to the end users.



The perfect solution against fuel theft

Fuel theft has become a global issue. The high price and high rate of duty on fuel makes it an attractive target for theft, particularly within a company that has private fuel storage.



Our dyes and markers are used to identify the fuel and to prevent this practice or provide evidence of fuel theft.


























Our liquid dye allows clients to colour all of their petroleum based products in most colors for easy traceability:

- This prevents employees to use petroleum based products for their personal gain.
- This is a product developed solely for Petroleum Logistics Ltd. that guarantees quality with a dilution ratio of 20,000 to 1 or more.

Our markers can be used to check the product integrity at the refinery, on the roadside or in the laboratory for high quantitative accuracy.

They are resistant to simple removal techniques. Simple roadside testing with a portable analyser showing the concentration of marked product in the fuel sample is available; this allows for successful prosecution of perpetrators and discourages fuel fraud.

Our Dyes and Markers

		Solvent Red 19 E
		Solvent Red 161
		Solvent Red 164
		Solvent Green 33
		Solvent Green 65
		Solvent Blue 79
		Solvent Blue 98
		Solvent Orange
		Solvent Yellow
		Solvent Yellow
		Solvent Brown liquid
		Solvent Black liquid
		Solvent Violet 48

The colour dyes featured above are only part of a wider palette offered by Petroleum Logistics. Our service includes any colour combination tailored to suit clients' needs and requirements.



A professional range of dyes and markers



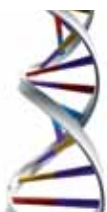
Our dyes give colour to the fuel. We offer them in both liquid and solid form for easy addition to fuels and solvents and according to our customers' needs. Our dyes are safe for health and environment and can be easily handled in oil refineries, terminals and even on bulk oil tankers for dosing as the oil is being discharged.

Our colours are designed for the world market of petroleum products such as petrol, diesels, gasoline, oils, lubricants and greases.

Markers are colourless chemicals added to fuels; they can be detected by either adding a specific reagent to produce a measurable colour or by placing a sample of fuel directly into a portable spectrophotometer to obtain a quantitative result in the field. The invisible/colourless markers can be detected with our reagents from the petroleum product even at 3-4 ppm levels.

Further testing under laboratory conditions to produce firm evidence for any legal proceedings can be subsequently performed. Euomarker is one of our most popular markers and a great tool in the fight against fuel fraud. It is invisible and is easily detected at very low levels in the field.

Fuel identification & brand marking



Our dyes are used to identify leaded, unleaded and leaded replacement fuels or different octane level gasoline in various countries.

Brand marking of fuel is essential for oil companies looking to maintain the integrity of their high quality fuel brands.

By marking their high grade fuels and sample testing throughout the downstream supply chain, we help oil companies ensure their customers satisfaction, good brand image and quality reputation.

We help prevent petrol stations from selling fake branded fuels. By using our markers in branded fuels we ensure product quality and reduced pollution caused by dirty fuels.



Performance Additives and Anti-Oxidants

Our Antioxidants are equivalent to Octels / Innospec AO series and are highly effective in jet fuels, gasoline and diesels. They are manufactured to meet petroleum refinery requirements as per grade of refining.

Their basic objective is to stabilize fuels, prevent oxidation in lubricants, and the polymerization in gasoline that leads to the formation of engine-fouling residues. The recommended dosage level is 2-3 liters per 10000 liters of petroleum product.

We have developed a comprehensive range of additives:

- Diesel Stabilizers
- Fuel Antioxidants
- Biodiesel Antioxidants - for rape seed oil and soybean oil-based biodiesel
- Diesel Lubricity Improver



Biodiesel Antioxidants

Our range of Biodiesel Antioxidants is very effective on biodiesels made with a specific percentage of rape seed oil, soybean oil, palm oil and vegetable oil. The recommended dosage level in this case may differ between 3 to 14 litres per 10,000 litres of biodiesel or 300 - 1400 ppm per litre of biodiesel.

We have expertise in customising a biodiesel antioxidant as per the quality of the biodiesel and we accordingly recommend a suitable product for exclusive stability.

Petroleum logisitcs range of Antioxidants is comparable to Albermarles Ethanox 4733, Ethanox 4737 and Ethanox 4740.

Our Research and Development team is constantly researching and designing new types of products in order to continually extend the pallet of products offered to our valued clients.



ISO 9001:2000 certified products

All our products are ISO 9001:2000 certified products and have:

- High concentration
- Long term physical and colour stability
- High quality, low impurity



Lubricant Antioxidants

Our range of lubricant antioxidants help enhance thermal stability, reduce sludge formation and improve lubricant performance, extending the life of lubricants in any application.

They also reduce thickening and inhibit acid formation in a variety of products, including engine oils, automatic transmission fluids, industrial oils, as well as compressor oil and gear and hydraulic oils.

Pour Points Depressants (PPD) for Lubricants

Also known as PPDs, pour point depressants are polymers designed to prevent wax crystals in lubricants from agglomerating or fusing together at reduced ambient temperature. PPD's role is to improve low temperature flow performance. If lubricants are not adequately protected with pour point depressants, the flow characteristics can be adversely affected, which may have a negative impact on engine performance and protection.

Our range of Pour Points Depressants (PPD) help improve low temperature flow performance, and increase engine capability for easier starting, less engine wear and longer engine life.

Selection of PPD depends on the lubricant base stocks, the additive package and the viscosity index improver used in a formulation. Pour Points Depressants (PPD) are a critical performance element in today's lubricants and we work closely with OEMs to keep abreast of the real life operating conditions.

Dispersants

Our dispersant agents are added to lubricating oils used in automotive engines to prevent the accumulation of varnish-like deposits on the cylinder walls. They are also added to gasoline to prevent the buildup of gummy residues.

Fuel Antioxidants

Our fuel antioxidants can be used in all petroleum-based fuel, from gasoline, and jet fuel, to diesel and kerosene.

They extend storage life and protect fuel systems by increasing resistance to oxidation. They also act as oxidation inhibitors in biodiesel, a renewable alternative fuel.

In addition, they help reduce gum formation, the main cause of poor combustion by forming deposits on the injectors and pistons. Excessive gum can also lead to fuel-filter plugging.



Diesel Stabilisers

Our range of distillate additives stabilizes diesel fuels by preventing the formation of gums, insoluble residues and color bodies.

We offer a wide range of other functional fuel specialities additives that can be combined with our diesel stabilizers for optimized fuel performance.



Lubricity improver

Fuels must meet minimum lubricity requirements to protect components such as fuel injector pumps and fuel injectors against premature wear. When processing fuels to remove sulphur or reduce aromatic levels, a typical side effect is a drop in fuel lubricity.

Petroleum Logistics range of lubricity improvers provide boundary lubrication between moving fuel system components. We aim to help refiners meet today's fuel lubricity requirements and prepare for cleaner-burning fuels in the future. In addition, we aim to be an active participant with the industry and its customers in developing the lubricity standard.

Middle distillate flow improver and WASA

Middle distillate fuels contain waxes that tend to precipitate at lower temperatures. This can cause blockage of filters and lead to failures of engines or heating systems. Middle distillate flow improvers (MDFI) improve the low temperature flow characteristics of the fuels or the pour point and pumpability specifications. MDFIs are tailored to perform effectively in a wide variety of fuels.



Cold Flow Plugging Point Improvers for Diesel Waxes crystals form within the fuel when diesel fuel is cooled to temperatures below their cloud points. In addition, biodiesel produced from high melting point feedstocks such as tallow and palm have poorer cold flow properties than those produced from soy and rapeseed oils. CFPP improvers modify the size and shape of wax crystals in the fuel, minimise filter plugging and improve cold start performance. CFPP improvers allow fuels with a high concentration of wax to meet CFPP specifications.

Conductivity improver

Conductivity improvers help mitigate the risk of fire or explosion. They improve the conductivity of the fuel, and allow any electrostatic charge built up during high volume transport of the fuel to safely dissipate without generating a spark.

This prevents ignition of volatile substances which might be present in the area.



Dehazers

Our dehazers are designed to remove water from automotive gasoline, diesel and heating fuels, protecting against corrosion and future water ingress. Dehazers break water micro emulsions, ensure brightness and clarity of product, and enable use of strong detergents in performance oils. They also improve water tolerance of additives.



They contain no metals, eliminating any contribution to high temperature corrosion during combustion.

Dehazers are developed for specific fuel types such as Gasoline Dahazers, Gas Oil Dehazers as or Lubricant Dehazers.

INN898 Multi-Functional Gear Oil Additive



The INN898 is our premium quality multi-functional gear oil additive package.

It has a unique sulfur and phosphorous composition used to formulate automotive lubricants and industrial gear oils meeting API GL 4, API GL 5 & US 224 levels of performance.

INN797 Multi-Functional Gear Oil Additive



We offer the unique INN797 - a premium quality multi-functional gear oil additive package based on a sulfur and phosphorous chemical process.

It is used in formulating automotive lubricants and industrial gear oils meeting API GL 4, API GL 5 & US 224 levels of performance.

CTB404



Our CTB404, an over-based calcium sulfonate specially formulated as an economical total base number booster (TBN) in diesel crankcase lubricants. It helps prevent detergency and rust build up.

The CTB404 can also be used in lubricants and greases that require excellent corrosion protection.

HP2932 Multi-Purpose Engine Oil Additive



Our HP2932 is a multi-purpose additive package suitable for formulating economy grade gasoline and diesel crankcase lubricants.

Together with providing excellent control of deposits, rust oxidation, HP2932 is ideal for controlling corrosion, wear and oil consumption in normally aspirated engines.



Drilling & Mud Chemicals



- Cloud Point Glycols which are extensively used in Water based Muds for Shale Inhibition & Lubricant properties
- Polyamines which are used in Water based Muds as Shale stabilizer
- Primary & Secondary Emulsifiers used in Oil based Muds
- Defoamers / Antifoam used in water based Muds
- EP Lubricants used in water based Muds
- Drilling detergents
- Clay Stabilizer (Substitute for PHPA)
- Oil Wetting Agents

Oilfield / Production Chemicals



- Flow improvers / Pour Point Depressants / Wax Inhibitors for smooth & trouble free transportation of crude oil from exploration sites to refineries
- Asphaltene Dispersants
- Polymeric Surfactants for invert emulsion (w/o emulsions)
- Demulsifier Components/ Concentrates
- Deoilers / Reverse Emulsifiers
- Mutual Solvents for Rig-wash
- Paraffin Dispersant



Quality control instruments

Through our agents we are able to supply the full range of Stanhope Seta products who are world leaders in quality control instruments used to measure the physical characteristics that determine the quality and consistency of petroleum and oils.

We have supplied many diverse industries across the world including oil refining, petrochemical, lubricants, plastics and the transport industry to name but a few.



Flashpoint Test

The Seta Multiflash fully automatic flash point tester is unique in covering the widest range of test methods.

The instrument is configured as a universal base unit with a choice of interchangeable modules that implement Pensky-Martens (A and B), Abel, Cleveland, Tag, Small Scale (Setafash Rapid Equilibrium), and Equilibrium tests.



Freezing Point

The 16990-2 Seta Freezing Point Apparatus comprises sample tube, paddle, unsilvered flask, cork stopper/thermometer support, and an insulated metal case with a viewing slot.



Vapour Pressure

The Setavap 2 Vapour Pressure Tester is an automated instrument for the measurement of the vapour pressure of gasoline, solvents, light crude oils, and other similar products using the "Mini" method.

Fully evacuated chamber technology guarantees that the sample is tested under a full vacuum, as required by the "Mini" test methods, unlike the expansion technologies that rely on moving pistons.



Distillation

The Setastill distillation unit, mounted to the left, comprises a flask support mechanism, heater elements, and the heater controller. The flask is supported by a drop-in ceramic-glass support board mounted to a platform that is adjustable for height.





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