



Belgian Federation of Ancient Vehicles
Official Partner



VOLTRION EXPORT PRODUCTS

As a producer of oil components for the lubricant manufacturers, VOLTRION launches a class of lubricants that are based on its own proprietary production method which brings extreme lubricity/oiliness to a lubricant. This super-lubricity property particularly benefits older "stressed and tired" engines with high mileage and high oil consumption, without affecting noble metal parts or seals.

SPECIALTY MOTOR OILS: HIGH MILEAGE - LONG DRAIN - UNIVERSAL

This class of lubricants has specially designed to increase the performance of older, tired engines of cars, vans, trucks and agro-industrial vehicles (youngtimers) as well as 4 stroke engines of recreational or professional boats. It has been divided according to their use into the following:

- **VOLTRION 15W50:** Superlubricity motor oil of the highest quality, for all types of 4 stroke Diesel, LPG or Gasoline engines. Advised for original viscosity grades 10W40, 15W40, 20W40, 10W50, 15W50, particularly suited for "YOUNGTIMERS".
- **VOLTRION DESERT:** Advised for the same engines as the 15W50, but with even more adapted properties to especially keep the engines clean and perfectly lubricated (sufficiently thick and lasting viscosity) under extremely HOT and SANDY climates.
- **VOLTRION MARINE 4T:** Advised for the 4 stroke motor engines of leisure & recreational boats (sailing boat engines and motor boats), as well as passenger carrying excursion boats thanks to its mild water-emulsifiability, providing lubrication even under water infiltrating condition.

VINTAGE MOTOR & GEAR OILS for Classic & Veteran/Brass era vehicles

VOLTRION CLASSIC: Highly oily electrically treated lubricant specially formulated with the latest technologies, yet safe and taking into account the needs of classic vehicles (cars, vans, trucks etc..) build between 1950 and 1985. Available in VOLTRION **CLASSIC SAE30**, **CLASSIC RACING (CLR)** motor oil as well as VOLTRION **CLASSIC GL90**, **GL140**, gear lubricants

VOLTRION VETERAN: Non-Detergent "Pre-War" lubricants especially formulated for an extraordinary oily lubrication of all types of veteran pre-1950s (SAE30 and SAE40) and pre-1920s (SAE50) vehicles and safe for original joints and special metals. Ideally suited for vehicles that need a thicker oil or whose motor has not been recently revised. Available in VOLTRION **VETERAN SAE30**, **SAE40** or **SAE50** motor oil as well as VOLTRION **VETERAN GL90**, **GL140**, **GL250(600W)** gear lubricants.

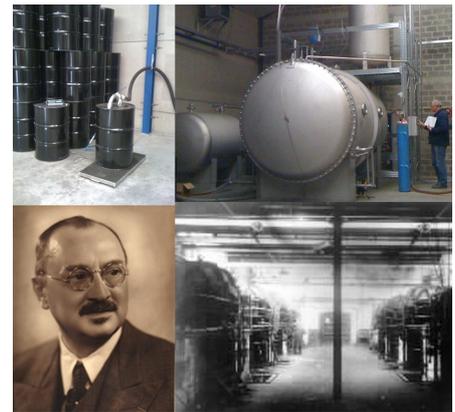
HISTORY OF ELECTRO-CHEMICAL TREATMENT OF OILS

Electro-chemically treated oils have since long proven their extraordinary performances superior to mineral oils and even in some applications to synthetic oils. The exclusive production method brings extreme lubricity/oiliness to a lubricant which particularly benefits older "stressed and tired" engines with high mileage and high oil consumption.

Aviation Quality Oils. Most aviation companies worldwide between 1920 and 1950 used electrically treated oils because they saw their flying ranges extended ten fold (e.g. from 60 flying hours to more than 600 hours (without engine reconditioning or oil change) thanks to the unique oily properties the electric treatment confers to the lubricant. Aviation companies such as KLM(1919), SABENA(1923), LUFTHANSA(1926), as well as aviation motor producers such as Wright, Gnome, Pratt&Whitney were delighted about the performances of this special class of lubricants(1). The German army also produced and used huge quantities of electrically treated bases for its aviation, marine and even submarines(2). These oils were essential for planes equipped with very powerful engines (above 2000 HP) that flew at a very high altitude (13000m) like the Focke-Wulf and the Messerschmitt. Some technicians of the now dismantled Belgian aviation company SABENA were surprised to see that the engines of their planes, as well as the surface finish of the metallic parts thereof were, quote: "...of an exceptional cleanliness...and this even after having flown more than 10 times (!) the normal distances without changing the oil"(3). After the '40s, new cost-efficient petroleum additives like ZDDP would replace their vegetable-based alternatives.

Electro-Chemical Installation. Voltrion technology was revived after Philippe Vercaemmen, whose grandfather had been the privileged collaborator of the Belgian inventor of the electro-chemical process early 1900's, decided in 2006 to restart together with his son Olivier a newly designed electro-chemical process based on these old yet sustainable manufacturing methods. After years of research on a small prototype they build a pilot industrial scale production reactor in Deinze (near Ghent).

Official BFOV partner. On a sidenote, VOLTRION has since March 2013 been elected as official partner of the BFOV (Belgian Federation of Ancient Vehicles) to supply its 30.000+ members with specially treated and formulated for the ancient automobile market. www.voltrionoil.be



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1 Xth International Congress of Industrial Chemistry.

2 Rhenania-OSSAG (Wikipedia).

3 "L'Echo des Ailes" jaargang 1932