



Osilub

Re-refining Waste Oil Into Base Oil

Regulatory Context

- > European Directive 2008/98/EC specifies that recycling of waste is the best solution to preserve natural resources
- > Under capacity of national re-refining resources: less than 50% of oil collected nationally is recycled, of which half is exported
- > Complementary partnership between Veolia Environnement waste oil collection business and Total Lubricants expertise in lubricant manufacturing
- > Construction of the plant in strict compliance with latest oil industry construction standards

Key Data

- Location: Le Havre port area (France)
- Partnership between Veolia Environnement and Total Lubricants
- Nominal capacity: 120,000 tons
- Customs supervised facility
- Permit under ICPE regulation

Waste Oil Acceptance

- > Mineral or synthetic oil
- > Waste oil: motor oil, transmission oil
- > Industrial oil: hydraulic oils, lubricants, dielectric oils
- > Pure oil, quench and cooling oils

Partners

- France & International
- Waste oil producers and collection companies
- International subsidiaries
- Industries
- Transfer stations

Logistics

- > Waste reception by:
 - Road: bulk tanker or packages
 - Sea or river: barges, tankers
 - Rail: tank wagons
- > Osilub is close to Total Normandy refinery
- > Direct access to European maritime network

Sustainability

- **Material recycling: a product life cycle that can be repeated again and again**
- **Conservation of natural resources**
- Capture and treatment of Volatile Organic Compounds
- Use of environmentally friendly transport: vessel, barge, railway

Process

- > Waste water and light distillates extraction
- > Thin film vacuum distillation
- > Diesel recycling
- > Heavy hydrocarbon distillates recovery
- > Steam stripping and biological treatment of waste water

Base oil re-enters the supply chain as new product

Unique features

- Incoming material is re-refined into oil products in compliance with Customs and Petroleum Committee requirements, **achieving end of waste**
- **Yield:** we generate 3 litres of base oil from every 4 litres of waste oil
- **Economic cycle**
- **Tracking and monitoring;** quality control process

Products from the Process

- > Base oil
- > Diesel
- > Light distillate
- > Heavy distillate

90% of incoming material is recycled into oil products in compliance with Customs and Petroleum Committee requirements

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