

The perfect location



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osilub

Re-refining

Waste Oil Into Base Oil

A New Life For Used Oil

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Osilub: re-refining into base oil

1. A Unique Partnership

- A world first: a dynamic partnership between **Veolia Environnement**, experts in waste treatment and resource management, and **Total Lubricants**, leaders in the oil manufacturing sector
- Our plant is built in strict compliance with **latest oil industry construction standards**
- Working together to bring **technology developed in the fine chemicals industry to a new waste recycling application**. Following several years of Research and Development in conjunction with University laboratories, our industrialised process has been patent protected

2. An Advanced Refining Process A Top Range Quality Product

- A first in France: **we generate 3 litres of base oil from every 4 litres of waste oil**
- 90% of incoming material is re-refined** into oil products in compliance with Customs and Petroleum Committee requirements
- Every consignment of **waste oil delivered is tracked and monitored**; potential pollutants such as chlorine content and PCBs are systematically checked
- Our base oil products go through a stringent **quality control process** before re-entering the market

3. Innovative Environmental Performance

- The environment is our priority**; our entire operation is focused on eliminating negative environmental impact:
 - Protection of soil, surface and ground water, with site wide containment
 - Capture and treatment of Volatile Organic Compounds
- Integrated control to reduce energy and utilities consumption
- A product life cycle that can be repeated again and again, providing the best solution to conserve natural resources for future generations**

Osilub: Key Data

Osilub facility

- Our refinery is a dedicated resource available to every **waste oil producer and collection company**
- Plant capacity: **120,000 tons per year**
- Customs supervised facility**
- High safety standards**

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

Logistics

- Osilub is close to Total Normandy refinery**
- Multimodal platform**: railway, barge and ocean vessels
- Direct access** to European maritime network

REGULATORY CONTEXT

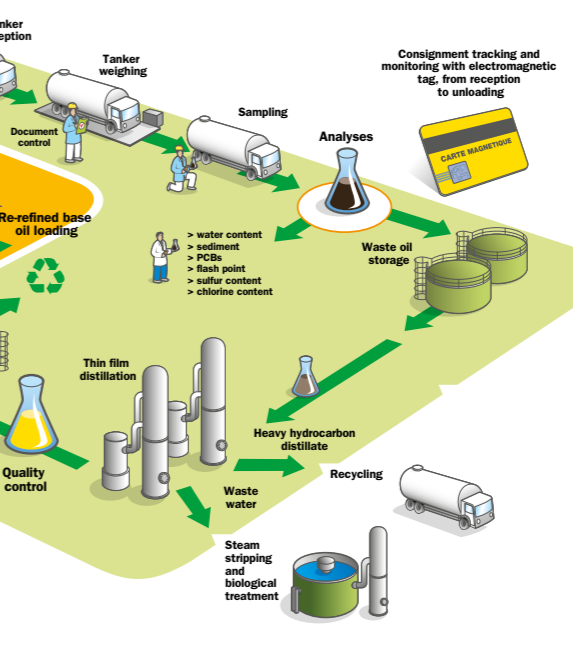
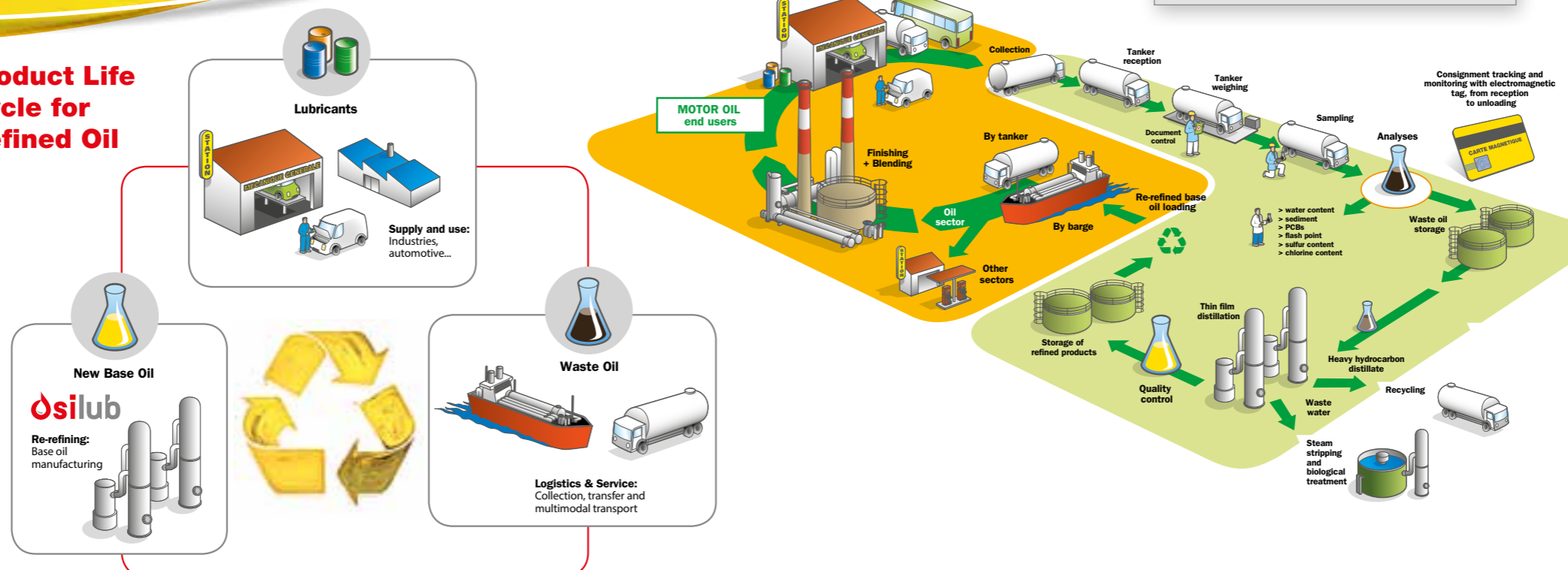
- European Directive 2008/98/EC specifies that **recycling of waste is the best solution to preserve natural resources**
- Under capacity of national re-refining resource: **less than 50% of oil collected nationally is currently recycled**. Half of this quantity is exported for recovery and re-use outside France

The 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

Product Life Cycle for Refined Oil



**A NEW
LIFE FOR
WASTE OIL**