CYCLO OIL LLC
Used Oil Re-refining Plant

Several countries have put in place policies and plans to manage the disposal of their used oil to protect their environment. Unfortunately, the appropriate management of used oil is a common problem for many world countries including UAE, where much of the wastes have negative environmental and human health risks because of inadequate systems for collecting, storage, recycling, disposal, etc.

Re-refining of used lube oil is an economically attractive recycling method in terms of resources conservation and environment protection. It allows processing of hazardous material in a safe and effective way to recover a high quality base oil product.

Re-Refining Oil is good for the Environment and the Economy!

Our Recycle?

- Prevents contamination of the environment
- Conserves a valuable resource
- Saves money by reducing waste disposal costs
- Reduces long-term liability for disposed products

Our Advantages:

- Removes environmental liability
- Reduces used oil disposal costs
- Reduces new oil purchases
- Re-refining is cost-effective process

Re-Refining is the only way to state that the oil is "Recycled". Many claim to be in the oil recycling business; but their process, that may involve filtering, blending and distillation of used oil, is not a complete re-refining process.
SUMMARY

Cyclo Oil. L.L.C. owns and operates a 22,000 MT per annum Used Lube Oil Re-refining Plant in the Dubai, United Arab Emirates.

Cyclo Oil Company has come out with a solution to protect the sensitive ecology for UAE by setting up a refinery to re-process such used lube oils generated in the country.

Our new facility is based on the latest technology using 'thin wiped film evaporators' processes used lubricating oils at much lower temperatures under high vacuum. The products produced after refining are being exported and certain lube cuts can also be used for lube blending by potential interested parties in Dubai, therefore were creating new opportunities in UAE.

Our team’s skills cover all aspects of creating and managing the used oil production project: organizing, financing, auditing, marketing, promoting business, solving technical and organizational problems.

BACKGROUND

Cyclo Oil LLC was Founded in 2007 as a national company. The operation started on March 2014, As a full Re-refinery plant, working with Dubai municipality hand by hand to ensure that no waste oil is been allowed to expel.

We are pioneers in Re-refining used engine oil, our plant is equipped with most modern technology which ensures the environment is not polluted while recycling process.

It is fully computer controlled; 24 hours a day, to ensure that our products meet the international standards. With computer interfaced Programmable Logic Controller (PLC), Supervisory Control and Data Acquisition (SCADA) system which enables online visual data analysis and control of various critical process parameters.
Our Management Program, Properly managing used oil

- To protect the environment.
- To protect human health.
- To protect against liability for environmental damages.
- To re-use, rather than waste, a valuable resource.

Used oil, even when not classified as a hazardous waste still, it has a harmful effects if it is released into the environment. In addition, people's health can be affected if used oil is not handled properly.

OUR MISSION:

Core competence of Cyclo oil re-refinery for production of renewable and environment friendly fuel, base oil. We intend to satisfy constantly growing demand for base oil worldwide and to generate fair return for investors and financing, continuing growth and development.

We plan to start production of base oil in full capacity 3000 Liters, to reach full plant capacity in 1 year and to increase it to 5000 Liters per hour at the second year.

GENERAL OBJECTIVES

- To extend leadership in used oil technology via innovation.
- To pursue worldwide opportunities.
- New business development with Business partners as well as customers.
- To offer marketplace and good revenue.
- Become a known brand, major player in used oil market.
OUR TECNOLOGY

Our process is completely environmental free process and does not contain any hazardous waste. Only waste from the plant will be sludge which can be used as asphalt based on quality and quantity recovered from waste lube.

REREFINING PROCESS

- High Vacuum Molecular distillation Technology
- WFE Wiped Film Evaporation Process
- Efficient Process with Maximum output
- Fully automatic, Continuous Process

GUARANTEED THROUGHPUT
- Asphalt Flux Viscosity @ 30°C, min > 1000cst
- Guaranteed 75% yield of base Oil
- Maximum 15% yield of Asphalt Flux
- Fuel Oil consumption, maximum 0.05 Kg/Kg WLO
OUR PRODUCTS

Waste Oil

Atmospheric Flash Distillation
- Water 3 - 5%
- Naphtha 2 - 3%
- Diesel 3 - 5%
- Treated & Disposed
  - Used As Fuel
  - Used as Boiler Fuel

Dehydration Oil Wiped Film Evaporation

Gas Oil 8 - 10%
- Lube oil 65 - 70%
- Bleaching with 5% Clay

Residual 12-15

Used as an Asphalt Extender

Blending with Fuel Oil
- Used as Fuel
  - Blending with Additive Finished product

Clear Base Oil
Codes and Standards

- American Society of Testing Materials (ASTM)
- American Society of Mechanical Engineers (ASME)
- American Petroleum Institute (API)
- Tubular Exchanger Manufacturer’s Association (TEMA)
- Bureau of Indian Standards (BIS)
- UAE Standards

Thank You

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