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Refining Process
Technology

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Lubricating Oil How
used motor oil is
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way Oil and the Re-
Refining Process
SENER used oil re-
refining process Our
Used Oil Re-refining

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Process Christian

Hartman - re-refining
of used oils Used lube
oil re-refining plant -
STBLOP Used oil Re-
refining plant 4500|

_____ | by

Thermopac

Reclamation and
recycling of black oil
(waste engine oil,
hydraulic oil.etc)

Used black oil regene

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ration/bleaching 10
uses for Used Engine
Oil. DO NOT DISCARD

OLD OIL. Save it or
give it to a friend
waste oil burner for
scrapping
construction and first
fire up ~~waste oil~~
~~simple filter system~~

Engine Oil Codes
Explained, SAE
(Society of
Automotive

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Engineers) numbers -

Oil Viscosity

Explained Oil filter

recycling by Lucas

Lane Inc. HOW TO

RECYCLE/ PURIFY

USED COOKING OIL

SIMPLE AND EASY

STEPS BY LOOKS AND

FLAVOURS The

'Mighty White' -

making waste oil

filtering easy ~~Waste~~

~~oil filtration~~ Small Oil

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refinery machine

How to clean cooking
oil Waste engine oil

regeneration to base
oil 50 TPD Used

Engine Oil Re-
Refining Plant

Installed in Saudi

Arabia Recycling and
Refining of

Lubricating Oil by

Balaji Consultants,

Pune Used engine oil
pre-treatment re

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~~refining lubricant oils
used Used oils re-
refining globally and
in Russia black waste
oil regeneration (DIR
vacuum distillation
used lubricant oil re-
refining equipment)
Used Engine Oil Re-
Refining Plant In
Saudi Arabia Re
Refining Of Used
Lubricating
Re-fining is the use of~~

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Re Refining Of

distilling or refining processes on used lubrication oil to produce high quality base stock for lubricants or other petroleum products. The use of this method has increased tremendously in developed countries, some countries reaching up to 50%

Download Free Re Refining Of Used Lubricating Oil of the country ' s need for lubricating oil.

Re-refining of used lubricating oil. - IJSER
Used lubricating oil (ULO) is any petroleum based or synthetic oil that has been used and during operation oil losses effectiveness due to the presence

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of certain

contaminants from
air, fuel combustion,
oxidation and
additives. Thus,
decreases the

(PDF) Re-Refining
Recovery Methods of
Used Lubricating Oil

...

THE RE-REFINING OF
USED LUBRICATING
OILS The lubricating

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oils used by vehicle engines have to be replaced at least every 20 000 km. This oil used to be dumped, but now most of it is re-refined and reused. This is done in a three step process, in which water, solids, lighter oils, dissolved metals, degraded additives etc. are

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Used

Lubricating Oil

The Re-refining of
Used Lubricating Oils
Re-refining of used
lubricating oil has
appeared as a
valuable technique to
re-refining of used
engine and industrial
oils.

(PDF) Used
lubricating oils re-

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Re Refining Of

Used Lubricating Oil
refining by solvent
extraction

The processes of re-refining of used lubricating oils depend greatly on the nature of the oil base stock and on the nature and amount of contaminants in the lubricant resulting from operations. The contaminants are

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introduced either from the surrounding air and from the engine, which are called extraneous contaminants, or from the products of oil deterioration.

Design Aspects of
Used Lubricating Oil
Re-Refining ...
Key characteristics of
Sequoia ' s

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technology for re-refining used lube oil
Sequoia ' s process
technology for recycling used lubricating oils is based on distillation, adsorption and hydrotreating... Specially designed evaporators preserve oil quality and prevent corrosion and fouling of

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Re Refining Of
Used equipment. Our ...

Lubricating Oil

Used oil recycling |
Hydrotreating of
used oil | Re ...
Refining Used
Lubricating Oils
describes the
properties of used
lubricating oils and
presents ways these
materials can be re-
refined and
converted into useful

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Re Refining Of

Lubricants as well as other products. It provides an up-to-date review of most of the processes for used lubricating oil refining that have been proposed or implemented in different parts of the world, and addresses feasibility and criteria for selecting a particular process.

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Refining Used
Lubricating Oil
Lubricating Oil
Lubricating Oils - 1st
Edition - James ...

PROCESS INVOLVED
IN USED OIL RE-

REFINING Step 1 -

Dehydration The oil is
boiled in a closed
container to remove
the water that has
been mixed into it.

Step 2 - Diesel
stripping The

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dehydrated oil is then fed continuously into a vacuum distillation plant for fractionation.

re-refining of used lube oil - SlideShare
Used Lube Oil Re-Refining Process.
Technology code
ARS-703 – High Vacuum Distillation using Wiped Film

Download Free Re Refining Of Evaporation(WFE) and Solvent Treatment

Technology. Lube Oil
& Used Lube Oil. Lube
Oil: Lubricating oil
are viscous liquids
used for lubricating
moving parts of
engines and
machines. Eg. Engine
oils, gear oils,
hydraulic oils, turbine
oils ...

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Waste Used Lube oil
Recycling / re-
refining Processing ...
Re-refining of used
lube oil is an
economically
attractive recycling
method in terms of
resources
conservation and
environment
protection. It allows
processing of

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Used hazardous material in a safe and effective way to recover an high quality oil product. This result in a strong economic incentive for re-refining considering oil price.

STP Present Used
Lube Oil Re-refining
25 ANNIVERSARY
Re-refining is a

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process used to refurbish used oil and return it to a high-quality base oil. In the United States, approximately 40 percent of used oil is captured and recycled in some manner, while 60 percent is lost. Nearly 14 percent of the captured and recycled oil is re-

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Used Lubricating Oil
refined.

Lubricating Oil

Understanding the
Re-refining Process -
Lubrication
Addresses and
demonstrates the
current knowledge of
the process
behaviour and re-
refining technology
of used lubricating
oils Contains 94
figures and 22 tables

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that on results
regarding the...

Design Aspects of
Used Lubricating Oil
Re-Refining ...

Re Refining Of Used
Lubricating Re-finishing
is the use of distilling
or refining processes
on used lubrication
oil to produce high
quality base stock for
lubricants or other

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Re Refining Of

Used Lubricating Oil
petroleum products.

The use of this
method has

increased

tremendously in

developed countries,

some countries

reaching up to 50%

of the country ' s

need for lubricating

oil.

Re Refining Of Used

Lubricating Oil

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The used oil is first tested to determine suitability for re-refining, after which it is dehydrated and the water distillate is treated before being released into the environment.

Dehydrating also removes the residual light fuel that can be used to power the refinery, and

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additionally captures ethylene glycol for re-use in recycled antifreeze.

Automotive oil recycling - Wikipedia
(DOC) THE RE-REFINING OF USED LUBRICANT OIL | Fortune C Akilimali - Academia.edu
Used oil – as its name implies – is any

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petroleum -based or synthetic oil that has been used. During normal use, impurities such as dirt, metal scrapings, water or chemicals can get mixed in with the oil or be generated in it due to thermal

(DOC) THE RE-
REFINING OF USED

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LUBRICANT OIL |

Fortune C ...

Various methods for recycling used lubricating oils were discovered including vacuum distillation of the used lubricating oil. However this process lead to problems of coking and column fouling during distillation and therefore some

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form of pre-treatment to remove contaminants and additives was required before vacuum distillation.

Design of a Batch process for Re-refining of used Lube oil ...

Re-refining /
Recycling of Used
Lubricating Oils We

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are one of the leading manufacturers and suppliers of Plants for Recycling & Refining of Used Lubricating Oil. The Wiped Film Evaporator is widely used world over for re-refining of used lubricating oil.

Balaji Consultants - re-refining

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FROM RE-REFINING
OF USED

LUBRICANTS The

waste lubricant,
through the
contamination
undergone during
use, has become
unsuitable for
lubrication due to the
presence of
impurities and other
products (e.g. other
lubricants of mineral

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and/or synthetic base, water, fuel, asphalt products, etc.) or due to the loss of its original properties.

Design Aspects of
Used Lubricating Oil
Re-Refining presents
a feasible and
comprehensive

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technology for recycling of used lubricating oils. This book discusses efficient and effective ways of reusing lubricating oil which, if implemented, will result in a better quality of life, the stability of the environment, the health of national economies and

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better relationships between nations. It presents essential experimental results for process designers and engineers to establish a complete process design. The conditions and behaviour in each step in the re-refining process, (dehydration, solvent extraction, solvent

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stripping, and vacuum distillation) are examined in order to discover ways to recover and reuse wastes that are produced by lubricating oils.

- Addresses and demonstrates the current knowledge of the process behaviour and re-refining technology

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Re Refining Of

Used Lubricating

oils • Introduces

background

information on the

lubrication, oil

recycling industry

outlining the major

manufacturers and

detailing their

processes • Contains

94 figures and 22

tables that on results

regarding the re-

refining process

Download Free Re Refining Of behaviour of used lubricating oil

Used lubricating oil is a valuable resource. However, it must be re-refined mainly due to the accumulation of physical and chemical contaminants in the oil during service.

Refining Used Lubricating Oils

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describes the properties of used lubricating oils and presents ways these materials can be re-refined and converted into useful lubricants as well as other products. It provides an up-to-date review of most of the processes for used lubricating oil refining that have

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Used
Lubricating Oil

been proposed or implemented in different parts of the world, and addresses feasibility and criteria for selecting a particular process.

The book begins with an overview of lubricating oil manufacturing, both petroleum-based and synthetic-based. It reviews the types and

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properties of lubricating oils and discusses the characteristics and potential of used lubricating oils. The authors describe the basic steps of used oil treatment including dehydration, distillation or solvent extraction, and finishing. They explore the

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combustion of used oil for use as fuel, covering chemistry and equipment, fuel oil properties, and combustion

emissions. The book considers alternative processing options such as refinery processing and re-refining. It also reviews the major refining processes

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that have been suggested over the years for used oil.

These include acid/clay, simple distillation, combinations of distillation and hydrogenation, solvent extraction, filtration, and coking processes. The book addresses economic, life cycle assessment,

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Used and other criteria for evaluating the attractiveness of an oil recycling project, examining various costs and presenting an economic evaluation method using an Excel spreadsheet that can be downloaded from the publisher ' s website. The book concludes with a

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chapter offering
insights on how to
choose the most
suitable process
technology.

Provides a
fundamental
understanding of
lubricants and
lubricant technology
including emerging
lubricants such as
synthetic

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and environmentally friendly lubricants • Teaches the reader to understand the role of technology involved in the manufacture of lubricants • Details both major industrial oils and automotive oils for various engines • Covers emerging lubricant technology such as

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synthetic and environmentally friendly lubricants •

Discusses lubricant blending technology, storage, re-refining and condition monitoring of lubricant in equipment

Used lubricating oil is a valuable resource, but it can be an

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environmental problem and a financial liability if improperly disposed of. Used oils pose hazards to human health and the environment, and therefore need to be managed safely. The mismanagement of used oil can contaminate air, water and soil. The

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objective of this work is to investigate the re-refining of used lubricating oils using solvent extraction process. The characteristics of used lubricating oils, utilization methods, elimination methods, environmental and human health effects were reviewed. Also, the various re-

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refining processes were described and a comparison between them was made to indicate the advantages and disadvantages of solvent extraction process. Experiments were carried out on used oils collected from several service stations. Used oils were subjected to

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preliminary
treatment to remove
water and dust
followed by solvent
extraction of base oil
using different
classes of solvents
including alcohols,
ketones and
hydrocarbon
solvents. Bench scale
study was carried out
to investigate the
effect of different

Download Free Re Refining Of variables. Lubricating Oil

This book explores effective environmental impact mitigation for petroleum-based lubricants to reduce their negative persistence during

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usage and upon end-of-life disposal. The book reviews the basic tribology of lubricants as well as initiatives that may enhance the environmental and economic effectiveness of lubricating oils from the composition design perspective across industries.

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Considering the blending, application, and disposal of petroleum lubricants in a holistic manner, the book presents and extends current best practices that minimize or eliminate adverse environmental impact throughout the product ' s life cycle. The book

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Used methods

including: raw
material substitution,

minimizing oil losses
during and after

manufacturing, raw
material and energy

consumption

reduction, and

environmentally

friendly applications

of oil disposal as

ways forward for

cleaner and more

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effective production.

This book provides
readers with

strategies for
incorporating cleaner
production practices
into their operations
– a benefit to both
environmental legal
compliance and
business
competitiveness –
all the while
preserving the

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environment for sustainable development. The book is therefore of interest to both manufacturers and consumers in the lubricants industry.

The Department of Defense (DOD) annually procures and uses a large amount of lubricating

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oil in its vehicle fleets.

This results in a significant volume of used lubricating oil being generated at DOD installations.

Characteristics of this used lubricating oil can lead to its consideration as a hazardous waste.

While Federal regulations classifying used oil as

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a hazardous waste have not been promulgated, this is expected to change in late 1983 or early 1984. Several states have already classified used oil as a hazardous waste in advance of Federal action. One significant option for the disposal of used lubricating oil is

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recovery and re-refining to produce a product capable of meeting military specifications (mil specs) for lubricating oil. The objective of this study was to determine the feasibility of capture and re-refining of all DOD used lubricating oil. The quantities of virgin oil currently

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procured and the capture potential are examined as is the degree of technical sophistication available in the re-refining industry. A mathematical model involving the costs of transport and re-refining of used oil and backhauling the re-refined product was developed and

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exercised on the available data. Results indicate that capture and re-refining of DOD's used lubricating oil is feasible under selected conditions with the cost of transportation being a major factor. The re-refining industry has both the capacity and the technical

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sophistication to produce a re-refined oil capable of meeting military specifications.

Waste Engine Oils presents a complete description of the field of engine used oils, widely collected in the networks of services-stations and garages. It describes

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the manufacture of base oils in refineries, and mentions the main additives playing an essential role in the quality of the marketed finished oils. The organization of the different systems of collecting in order to obtain a waste oil regenerable or used as fuel are explained.

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This book covers the main operations of physical and chemical treatments required in waste oil regeneration by covering the fundamental principles techniques such as vacuum distillation, solvent deasphalting, and ultrafiltration. A wide part is dedicated to

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applications with the description of about twenty processes. In addition, the book describes several types of energetic valorizations which concern a quite important fraction of the collected oil volume. *

Comprehensive approach of the waste oil valorization

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* Overview of
chemical engineering
operations applied to
waste oil * Objective
view of the given
information on a
subject giving rise to
competitiveness
between the two
routes of valorization

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