



# USED OIL IN YAP

In 2014, a Used Oil Audit for the FSM was conducted by SPREP through GEF funding. This poster presents information gathered about Used Oil in Yap State which focused on volumes of lubricating, hydraulic, and transmission oils imported annually into Yap, and volumes of used oil produced, stored, or otherwise disposed.

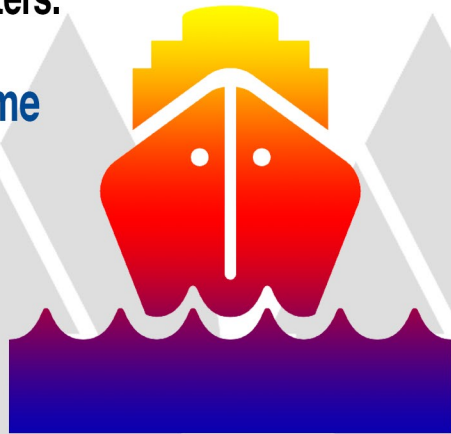
## IMPORTS

Import data was gathered through CTA Yap statistics for a 3-year period (2011 to 2013) however because these figures were not listed as a specific quantity, the volume was calculated using import cost including freight (CIF) divided by average cost per gallon for various imported oils.

This was then compared with data collected through visits with importers.

Average Annual Oil Import Volume  
(Gallons Per Year)

14,345 Ga/Yr



## GENERATION

Import data was used to estimate theoretical amounts of used oil generated. This was compared with actual quantities gathered by visiting shops and sites that produced used oil. A 10% allowance was added to Actual Quantity data gathered.

Source of Used Oil	Actual Quantity (Ga/Yr)
Vehicle & Machinery Servicing	2,495
Ship & Boat Servicing	80
Small Generators	74
YSPSC Power Station	660
<b>SUBTOTAL</b>	<b>3,308</b>
Survey Allowance (10%)	330
<b>TOTAL</b>	<b>3,638</b>

## DISPOSAL

Currently there are NO DISPOSAL NOR REUSE options in Yap to utilize the State's used oil.

The only option for disposal of used oil is to have it taken off-island and disposed of at a facility capable to treat the product to a standard where it can be re-used for light and/or heavy industry purposes elsewhere.

FSM is a party to both the Basel Convention and Waigani Convention. As such, Yap may export used oil to other countries that are parties to Basel/Waigani Conventions.

CTSI Logistics estimates shipping cost of a 20-ft container to the Philippines at \$2,500 which includes bladder/drum costs, Basel Convention consent forms, insurance, wharf costs, and custom costs.

As yet, there have been no pilot projects to gauge disposal via off island shipment.

## STORAGE

In addition to the estimate of used oil generated, the amount of used oil already stored/stockpiled is also important.

Twenty-two (22) sites were visited and total volume of used oil stored was recorded. However, this figure is likely to be underestimated as not every container was inspected. Therefore, an increase of 10% to stockpiled figure was added.

17,369 ga. (or est 320 55-ga drums)

total volume of stockpiled/stored used oil as of 2014



## RECOMMENDATIONS

- Establish regulations for managing used oil handling, safe storage, and disposal;
- Establish designated centralized collection point; consider establishing an environmentally secure collection facility that is well contained and monitored to ensure proper management;
- Establish procedure for collecting, managing, and disposing of used oil at centralized collection point;
- Investigate a 'User Pay' system for collecting used oil to help offset costs for setting up and running collection process;
- Establish suitable time frames for exporting collected oil to an off shore facility given that estimated amount of used oil generated each year is now available;
- YSPSC to consider possibility of extending their reuse process to outside oil generators and what would be required to upgrade it;
- Consider reuse options on Yap.

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