



## Dubai Municipality – Environment Department

### Information Bulletin Waste Oil Collection and Reuse Issue date: January 2007

1. Waste oil is considered hazardous waste under the Basel Convention on the Control of Transboundary Movement of Hazardous Wastes & their Disposal, as well as by DM Environment Department as per Technical Guideline 26. Waste oils include waste mineral oils unfit for their originally intended use (e.g., used lube oil), waste thermal (heat transfer) oil, waste oil/water mixtures, hydrocarbons/water mixtures or emulsions, oily/tarry residue, slops from marine vessels, sludge from oil tankers and other similar waste-containing-oil.
2. Improper handling or disposal of waste oil causes pollution of environment, as well as, risk of fire. The Environment Department has issued a number of relevant technical guidelines (TG) addressing these issues. The guidelines include EPSS TG50, which outlines the requirements of safe transport on land; the EPSS TG34, which set limits of allowable contaminant in the waste oil intended for re-use as fuel in a furnace; and EPSS TG49, which specify when a waste mixture contaminated with oil can be considered a hazardous waste for disposal purpose as per EPSS TG26.
3. The high calorific value of most waste oil makes it a good alternative fuel in industrial furnaces. A number of companies have ventured into the business of recycling waste oil. Some local entrepreneurs are engaged in the trading of waste oil while some operate waste oil recovery facilities through which extraneous contaminants such as water, debris or sediment are removed while enhancing the re-usability of waste oil.
4. Listed on Section 8 of this Bulletin are the names of the establishments provisionally permitted by EPSS to collect waste oil in the Emirate of Dubai for the purpose of recycling, treatment and for re-use in the UAE. These permitted establishments are expected to observe the following prohibitions:
5. Prohibitions:
  - a) Dubai Municipality prohibits collection of waste oil generated in Dubai for disposal as waste into other Emirates.
  - b) Exportation of waste oil, and any form of its by-product whether treated or not, to any country outside the UAE is prohibited by Dubai Municipality unless with prior consent and/or with approval in writing by the Federal Environmental Agency and as per the requirements of the Basel Convention.
  - c) Handling, collection for reuse, or disposal of waste oil contaminated with PCB or PCT and similar chlorinated substance and their derivatives.
6. Any person or establishment found disposing of waste oil by other means or through other companies or persons without prior written approval from EPSS would be cited for violation of Local Order on the Protection of Environment in the Emirate of Dubai.
7. All establishments and premises in Dubai generating waste oil that can be recycled, are advised to have their waste oil collected only by any of the establishments permitted in writing by EPSS.

8. Given in the table below are names of establishments provisionally permitted by the Environment Protection and Safety Section (EPSS) to collect waste oil from sources located in the Emirate of Dubai for the purpose of treatment and recycling.

<b>Al Ghadban Trading Co. L.L.C.</b> P.O. Box 6249, Sarah, UAE Tel: 04 -2674347; Fax: 06 -5334134	<b>Mehboob Scrap Co. LLC</b> P.O. Box 1609, Sarah, UAE Tel: 06-5436934; Fax. 06-5437036
<b>Advance Environment Technology Est.</b> P.O. Box 114918, Dubai, UAE Tel: 04 - 3248220; Fax; 04 - 3248221	

9. The provisional approvals to the aforementioned establishments **expire on 31<sup>st</sup> December 2007** and valid only for the type of waste oil for each of the Collector can accept based on the criteria and sources as given below.

**Criteria of Waste Oil Acceptable to Waste Oil Collectors listed above.**

DETERMINANDS	Al Ghadban	Advance	Mehboob
<b>CONSTITUENTS:</b>			
• Free oil, %	50 - 100	95 -100	92 - 100
• Water, %	0 - 55	0 - 5	0 - 3
• Sediment, %	0 -1	0 - 1	0 - 1
• Sulfur, % ( <i>max.</i> )	0.4	0.85	0.75
• Total Metals, ppm ( <i>max.</i> )	200	200	200
<b>SOURCE:</b> (ref: Section 10)			
a) Lube oil from car garage	✓	✓	✓
c) Slop oil from marine ships	✓	✓	
f) Engine/machine oil	✓	✓	✓

10. Within the context and for the purpose of this Bulletin, waste oils are classified into types by source as follows:
- Waste lube oil from vehicle maintenance shop or garage.
  - Oily wastewater from garages other than waste lube oil.
  - Slop oil from commercial ships and oil tanker.
  - Bilge waste from ships other than slop oil.
  - Oil sludge or residues collected from the bottom of storage tanks or oil tankers.
  - Waste oil from machine and engine maintenance shops other than car garage.
  - Waste oil previously used as coolant in lathe machines and other metal works.
  - Oily waste from industrial plant processing of petrochemical products.
  - Oily waste or tarry residue arising from refining or prolific treatment of organic matter.
  - Wastewater containing significant amount of oil resulting from industrial cleaning.
  - Waste thermic (heat transfer) oil.
  - Waste dielectric fluids (from transformer/capacitor/etc..) without PCB/PCT/PBB.
11. The EPSS may amend the above classification as and when necessary. This criterion should not be used in other subject without written consent from EPSS.