

# Used Oil Basics

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# Used Oil Regulations

- ★ Ohio EPA adopted rules in October 1998
- ★ Found in Ohio Administrative Code (OAC) chapter [3745-279](#)



# Today's Topics

## What we will cover in this session

- ★ What is “used oil?”
- ★ Generator management standards
  - ★ Burning
  - ★ Self Transporting

## What we won't cover in this session

- ★ Spill Prevention Control and Countermeasures (SPCC)
- ★ Polychlorinated Bipheynls (PCBs)
- ★ Other used oil handlers

# Used Oil Definition

“Used Oil” means any oil that has been refined from crude oil, or any synthetic oil, that has been used, and , as a result of that use, is contaminated by physical or chemical impurities.

\* Not a hazardous waste



# Types of Used Oils

- ★ Lubricants
- ★ Heat transfer fluids
- ★ Hydraulic fluids



# Examples of Used Oil

- ★ Motor Oil (cars, trucks, boats, trains, etc.)
- ★ Refrigeration coolant
- ★ Metalworking fluids and oils
- ★ Laminating oils
- ★ Hydraulic fluid
- ★ Wire drawing solutions
- ★ Electrical insulating oil



# Examples of Used Oils – Lubricants

- ★ Motor oils
- ★ Greases
- ★ Metalworking lubricants
- ★ Emulsions (Usually have high water content – these should not be considered non-hazardous wastewaters)



# Examples of Used Oils – Heat Transfer Fluids

- ★ Coolants (except for antifreeze)
- ★ Heating media
- ★ Refrigeration oils
- ★ Electrical insulation oils



# Examples of Used Oils – Hydraulic Fluids

- ★ Transmission fluids
- ★ Brake fluids
- ★ Fluids used in any hydraulic equipment



# Used Oil Prohibitions

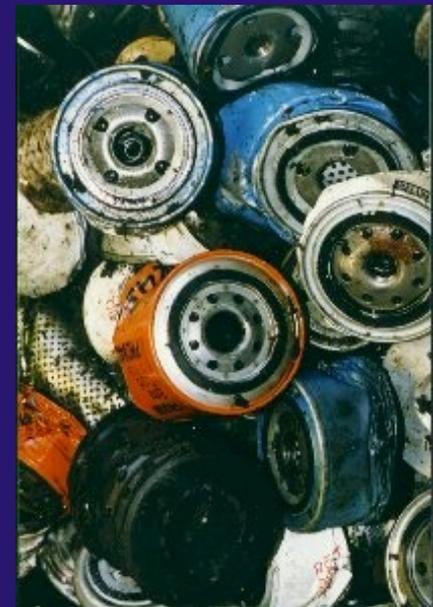
- ★ **Dust Suppressant** – Cannot apply used oil to roads for dust suppression purposes
- ★ **Surface Impoundment** - Cannot manage/ dispose of used oil in surface impoundments, unless unit meets regulatory requirements
- ★ **Burning of Used Oil** - Off-specification used oil may only be burned in specific units

# Oils Not Regulated as Used Oil

- ★ Waste Oils or Oily Wastes
  - ★ Virgin oil (Tank Bottoms)
  - ★ Virgin oil spill clean-up material
  - ★ Oils used for their solvent properties
  - ★ Antifreeze
  - ★ Animal/vegetable oil
  - ★ Used oil which has met the requirements of OAC rule 3745-279-11 (Specification)

# Materials Contaminated with Used Oil

- ★ Rags/Wipers
- ★ Clean up material
  - ★ Evaluation per OAC rule 3745-52-11
- ★ Used oil filters  
(See OAC rule 3745-51-04(B)(13))
  - ★ Drained
  - ★ Terne Plated (lead issues)



# Mixing of Hazardous Waste and Used Oil

- ★ Recommend NOT Mixing Used Oil with Hazardous Waste
- ★ Conditionally Exempt Small Quantity Generator (less than 100 kg/month)



# Rebuttable Presumption

- ★ Determination if used oil has been mixed with hazardous waste
- ★ Contains greater than 1,000 parts per million (ppm) total halogens, presumption is used oil has been mixed with listed hazardous waste
- ★ Generators, Transporters, Processors, Re-refiners and burners must make determination



# Used Oil Handlers

- ★ Generators
- ★ Transporters/Transfer Facilities
- ★ Processors/Re-refiners
- ★ Marketers
- ★ Burners

\*All have specific rules



# Management Standards



## Common Used Oil Management Standards

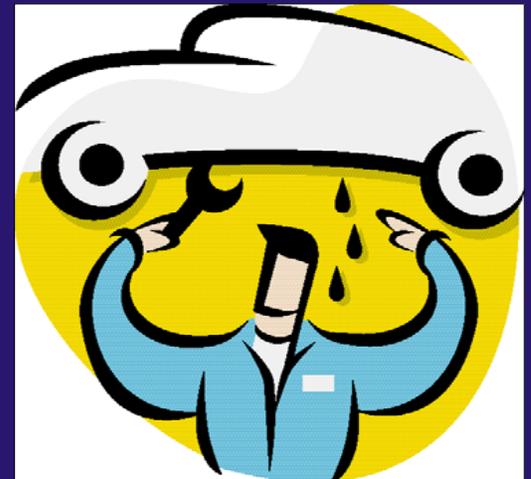
	Handlers				
	Generator/ Collection Center	Transporter/ Transfer Facility	Off Spec Burner	Processor/ Re-refiner	Marketer
<b>Requirement</b>					
<b>Storage</b>	yes	yes	yes	yes	n/a
<b>Secondary Containment</b>	no	yes <sup>2</sup>	yes	yes	n/a
<b>Respond to Releases</b>	yes	yes	yes	yes	n/a
<b>Notification/ EPA ID Number</b>	no <sup>1</sup>	yes	yes	yes	yes
<b>Tracking</b>	no	yes	yes	yes	yes

1 Collection Centers are required to register

2 Only Transfer Facilities need secondary containment

# Used Oil Generator

- ★ Any person, business, or government agency whose act or process produces used oil or whose act first causes the use oil to become subject to regulation
- ★ Examples of Used Oil Generators
  - ★ Auto repair shops
  - ★ Metalworking industries
  - ★ Grocery stores



# Storage

- ★ Must be stored in containers or tanks
- ★ Require containers & tanks be in good condition
  - ★ no severe rust, defects or deterioration
  - ★ no visible leaks
- ★ Label containers, tanks, underground storage tank (UST) fill pipes w/ “used oil”



# Used Oil Storage

## The Good, Bad & Ugly

# The Good



# The Bad



# The Ugly



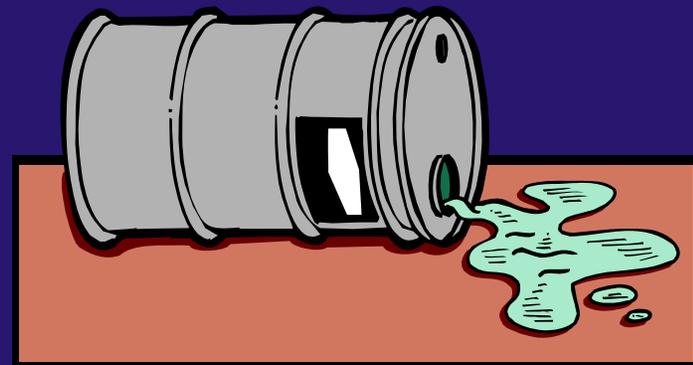
# Transporting

- ★ Must use transporter with US EPA ID number
- ★ Self-transporting



# Release Response

- ★ Stop the release
- ★ Contain the released used oil
- ★ Clean up and properly manage the released used oil and materials used in clean up
- ★ If necessary, remove the tank or container from service for repair or replacement



# Generators Burning Used Oil

- ★ Used oil must be generated by owner/operator or used oil Do-it-Yourselfer (DIY)
- ★ Burner unit max 0.5 million Btu
- ★ Gases vented to ambient air (outside)
- ★ Should always contact Division of Air Pollution Control (DAPC)



# Used Oil Generators: Self-Transport

- ★ Generators may transport own used oil of up to 55 gallons at one time
- ★ Must be in own vehicle
- ★ Must be delivered to aggregation point or collection center



# Collection Centers and Aggregation Points

## ★ Collection Centers

- ★ Receive used oil transported by other generators in less than 55 gallon amounts
- ★ Must register
- ★ Must comply with generator standards

## ★ Aggregation Points

- ★ Receive used oil from other sites owned/operated by aggregation point in less than 55 gallon amounts
- ★ Must comply with generator standards

# Further Information

- ★ Used Oil Generator, Transporter and Burner
- ★ Ohio EPA Division of Hazardous Waste
  - ★ Regulatory Services Unit
  - ★ Compliance Assurance Section
  - ★ District Offices



**Any Questions?**

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