

# waste & used oil analysis

## do you use any of these types of oils?

engine oil, gear oil, hydraulic oil, turbine oil, compressor oil, industrial oil, heat transfer oil, transformer oil, spent oil, furnace oil.

If you do, then this publication will help you meet the specifications of Schedule 5 & 6 of Ministry of Environment & Forests, Govt.

The Ministry of Environment & Forests (MoEF), in its Gazette Notification No: 593 (E), dated 20<sup>th</sup> May 2003, has published Specifications for Waste and Used oils for Recycling / Refining – known as the Schedule 5 & Schedule 6.

### Definitions:

**Used Oil** means any oil derived from crude oil or mixtures containing synthetic oil including used engine oil, gear oil, hydraulic oil, turbine oil, compressor oil, industrial oil, industrial gear oil, heat transfer oil, transformer oil, spent oil and their tank bottom sludge;

**Waste Oils** means any oil which includes spills of crude oil, emulsions, tank bottom sludge and slop oil generated from petroleum refineries, installations or ships; and is unsuitable for refining; but can be used in furnaces if it meets the specifications laid down in Schedule 6.

The quality parameters (specifications) for Used Oils (Schedule 5) & Waste Oils (Schedule 6) have been listed in Table 1 below.

Schedule 5 Specifications for Used Oil suitable for Refining	Schedule 6 Specifications for Waste Oil suitable for recycling
Colour	Sediment
Water	Heavy Metals (as below)
Density	• Cadmium
Kinematic Viscosity cSt at 100 °C	• Chromium
Diluents	• Lead
Neutralization No.	• Nickel
Saponification Value	• Arsenic
Total Halogens	Total Halogens
Polychlorinated biphenyls (PCBs)	Polychlorinated biphenyls (PCBs)
Lead	
Arsenic	
Cadmium+Chromium+Nickle	
Polyaromatic hydrocarbons (PAHs)	

Using internationally accepted methods from Office of Solid Wastes (SW-486), **Environment Protection Agency - USA**, Choksi Laboratories Limited has developed an expert team for analysis of complex oils and oil mixtures.



**Choksi Laboratories Limited** has four state-of-the-art laboratories approved by Ministry of Environment & Forests, and employs over 200 analysts, engineers and microbiologists. Accredited on ISO/IEC 17025, Choksi Laboratories Limited has been serving several industry sectors as a partner of choice for various quality assurance solutions. With over 25 years experience in analytical testing, we can help you meet all your regulatory requirements.

For exporters / importers of waste oil or used oil, **Choksi Laboratories Limited** also provides analysis of Brake fluids, Power steering fluid, Cutting oil, Lubricating oil, Transaxle fluid, Differential oil, Motor oil, and Transmission fluids for analysis as per national (MoEF) and international standards (US-EPA) requirements of Used Oil.

With our recently expanded network, we can now provide you with a sample collection facility in over 15 Indian Cities.

*Sample Volume Required* for complete analysis as per Schedule 5 or 6 is 250 ml.

*Turnaround Time* is 7 working days. Express services (within 48 hours) are available at additional charges.

If you would like to get your waste or used oil sample(s) analyzed, email us at [info@choksilab.com](mailto:info@choksilab.com), or call us on any of the numbers listed below. If you are located in a city not listed below, email us anyway – our centralized courier solutions will help to simplify your sample delivery at our labs.

## CLL – Your Partners in Quality

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### BRANCH LABS:

CLL Vapi (Gujarat), CLL Vadodara (Gujarat), CLL Panchkula (Haryana)

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