

Method 2

This method is used when taking a sample from an oil tank. The equipment needed:

- low pressure pump
- flexible plastic tube
- a particle free bottle. The cap is not to be placed face down on a surface or in a pocket.
- particle free (0,5 µm filtered) solvent (if no solvent is available then in emergencies you can rinse the sample equipment according to parts 2-3 in the instructions below)

NOTE!

- In general, lubricants are not hazardous to the health, but used oil can develop such substances while in use, so it is advisable to wear appropriate protective goggles and gloves while taking samples.
- Lubricants pose a risk to the environment, so rags and immersing substances should be used to protect the sampling area.

Instructions:

1. Using the pump, suck 200 ml of solvent through the plastic tube into the bottle. Empty the bottle from the solvent.
2. Place the plastic tube into the oil container so that the mouth of the tube is halfway in the liquid.
3. Using the pump, suck around 200 ml of oil into bottle A, empty the bottle and place it to one side.
4. Attach bottle B to the pump and transfer 200 ml of oil into the bottle.
5. Rinse the inside of the bottle with oil, empty the bottle and repeat the process twice.
6. Pump around 250 ml of oil into bottle B and seal it.
7. Write the details of the sample onto the side of the bottle.

Other noteworthy aspects:

- The sample liquid is not to exceed $\frac{3}{4}$ of the volume of the bottle. The sample will be shaken in the laboratory in order to mix the impurities evenly.
- The sample bottle must have details of the device, sampling date and time written on it.
- The following information must be in the cover letter:
 - the date and place of the sample
 - the device
 - type of oil
 - oil temperature and hours used
 - type of filter and filtration level
 - date of filter change
 - has any oil been added?
 - have there been any breakages?
 - the name of the sample taker

The cover letter is to be sent with the sample to:

Fluidlab Oy, Iso-Heikkiläntie 8, 20200 TURKU, FINLAND.