



1. Oil containing waste water detection

On an oil press the amount of oil in the waste water must be controlled. Typical values are 500ppm of flux oil in the waste water and the goal is to reach the 100ppm. At this the fluorescent effect of the flux oil is used. For this purpose a color fluorescent sensor **SPECTRO-3-FIO-UV** in connection with an external lightning source **ELS-UV-1P** (formerly SPECTRO-3-ELS-UV) and an optical fiber type **R-S-R2.1-(6x1)-1200-Y-22°/67°-UV** is deployed, therefore the optical fiber head dip into the waste water. Different waste water samples with different contamination starting from approximately 10ppm to 200ppm were investigated. As shown in the screen shots, a proper differentiation of the different probes is possible.

