



1. Color differentiation of fluorescent oil

Different oil probes which are used for engines should be differentiated. At this the natural effect of UV fluorescent of mineral oil is used. Furthermore fluorescent liquid will be added to some the mineral oils, which allows a differentiation of the adequate probes. For this purpose a **SPECTRO-3-FIO-UV** sensor in connection with a UV lightning source type **ELS-UV-1P** and an optical fiber type **R-S-R2.1-(6x1)-1200-Y-22°/67°-UV** with an optical front end type **KL-8-R2.1** is used. The front end is directed to the glass of the oil probe at a distance of approximately 11mm. The spot size at this distance is around 4mm x 0.7mm. As shown in the screen shots, a proper differentiation of the oil probes is possible.

