

KF Application Note No. K- 26

Title: Water in used lubricating oil

Summary: The water content of used lubricating oil is determined according to Karl Fischer by coulometric titration. To prevent unwanted side reactions special KF reagents are used.

Sample: Used lubricating oil

Sample Preparation: none

Instruments and Accessories: 737 KF Coulometer, cell with diaphragm; 728 Magnetic Stirrer, printer

Analysis: Start the 737 KF Coulometer to condition the reagent in the measuring cell. When the drift is steady and below 10 ug/min inject ca. 0.4 g sample using a syringe. Exchange the reagent in the cathode compartment as soon as its colour changes from brown to yellow.

Reagents:

Hydranal Coulomat CK and Hydranal Coulomat AK (Riedel-de Haën)

Results: AVG(9) = 631 +/- 23 ppm water

Settings: 737 KF Coulometer

smpl.req.	on
d.start	16 ug/min
extr.	10 s
stop drift:	auto
delay time	3 s
report:	full