Mineral oil in soil and water according to DIN EN ISO 9377-2

Fast analysis of diesel contamination according to DIN EN ISO 9377-2

Application Note

Environmental

Authors

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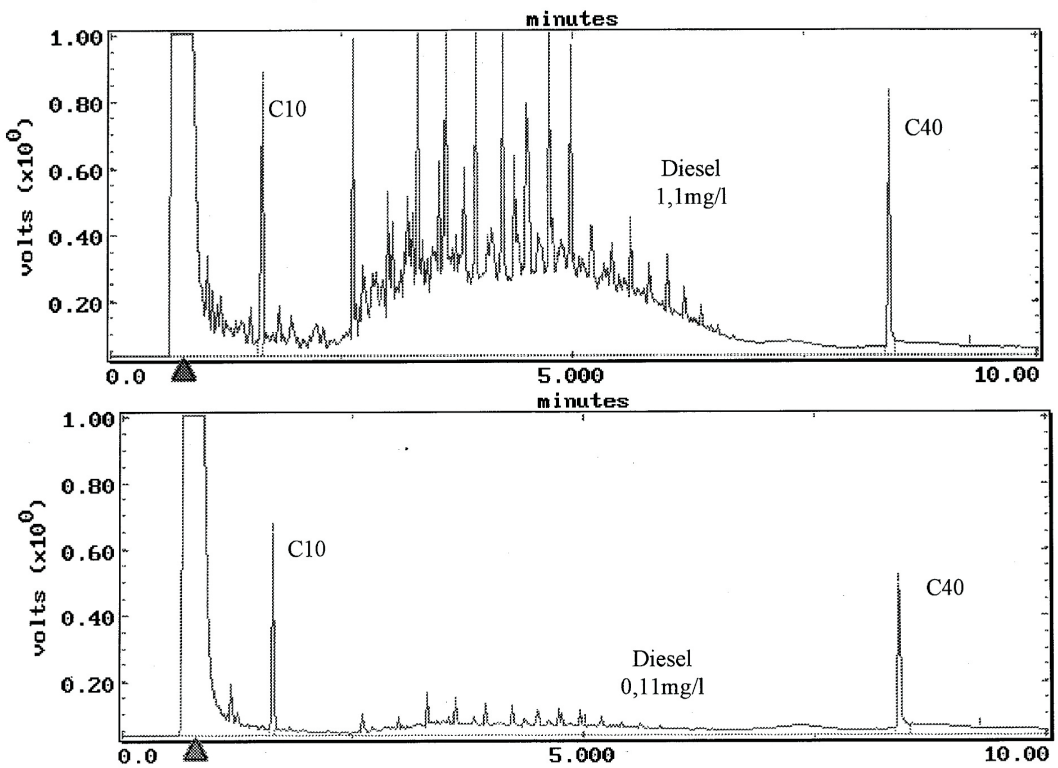
Introduction

The analysis of mineral oil can be done highly efficiently using GC and the Agilent Select Mineral Oil column . This column was optimized for mineral oil analysis to generate the shortest analysis time. The method used is DIN-EN ISO 9377-2 which replaces the DIN H53. The Select Mineral Oil stationary phase was tuned for separation and stabilized for high temperature operation. Upper temperature limit of this column is 400 °C.

Conditions

Technique	: GC
Column	: Agilent Select Mineral Oil, 0.32 mm x 15 m fused silica (optimized film thickness) (Part no. CP7491) 6 m x 0.53 mm, methyl deactivated
Temperature	: 55 °C, 1.9 min → 320 °C, 80 °C/min
Carrier Gas	: Nitrogen, 80 kPa
Injector	: On-column
Detector	: FID
Sample Size	: 2 µL
Sample Size	: Diesel, 1.1 mg/L and 0.11 mg/L in petroleum ether
Courtesy	: Thomas Karle, Chemisches Labor; Dr. Vogt, Karlsruhe, Germany



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