



# Mineral oil in water and soil 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 efficient using GC and the Agilent Select Mineral Oil column. This column was optimized for mineral oil analysis for the shortest analysis time. The method used is DIN-EN ISO 9377-2 which replaces 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.



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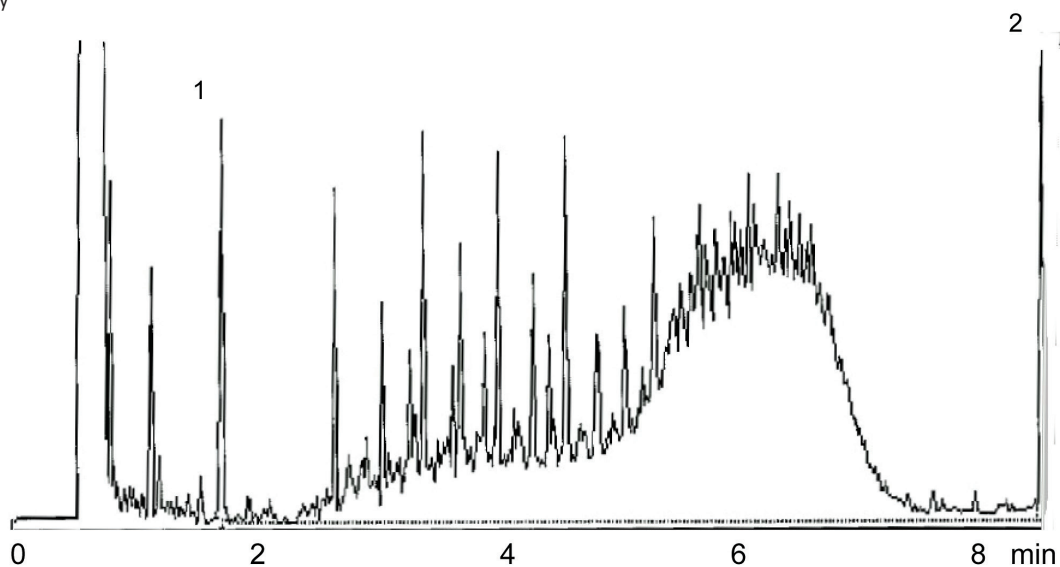
## Conditions

Technique : GC  
Column : Agilent Select Mineral Oil fused silica  
0.32 mm x 15 m (optimized film thickness)  
(Part no. CP7491)  
0.53 mm x 4 m, methyl deactivated, Part no. CP8015  
(3-pack)  
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  
Concentration Range : 1 mg diesel/lubricant oil 1/1 per mL in petroleum  
ether

Courtesy : Thomas Karle, Chemisches Labor Dr. Vogt, Karlsruhe,  
Germany

## Peak identification

1. C<sub>10</sub>
2. C<sub>40</sub>



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