



Hydrocarbons

Pattern recognition of motor oil 15W/40

Application Note

Energy & Fuels

Authors

Agilent Technologies, Inc.

Introduction

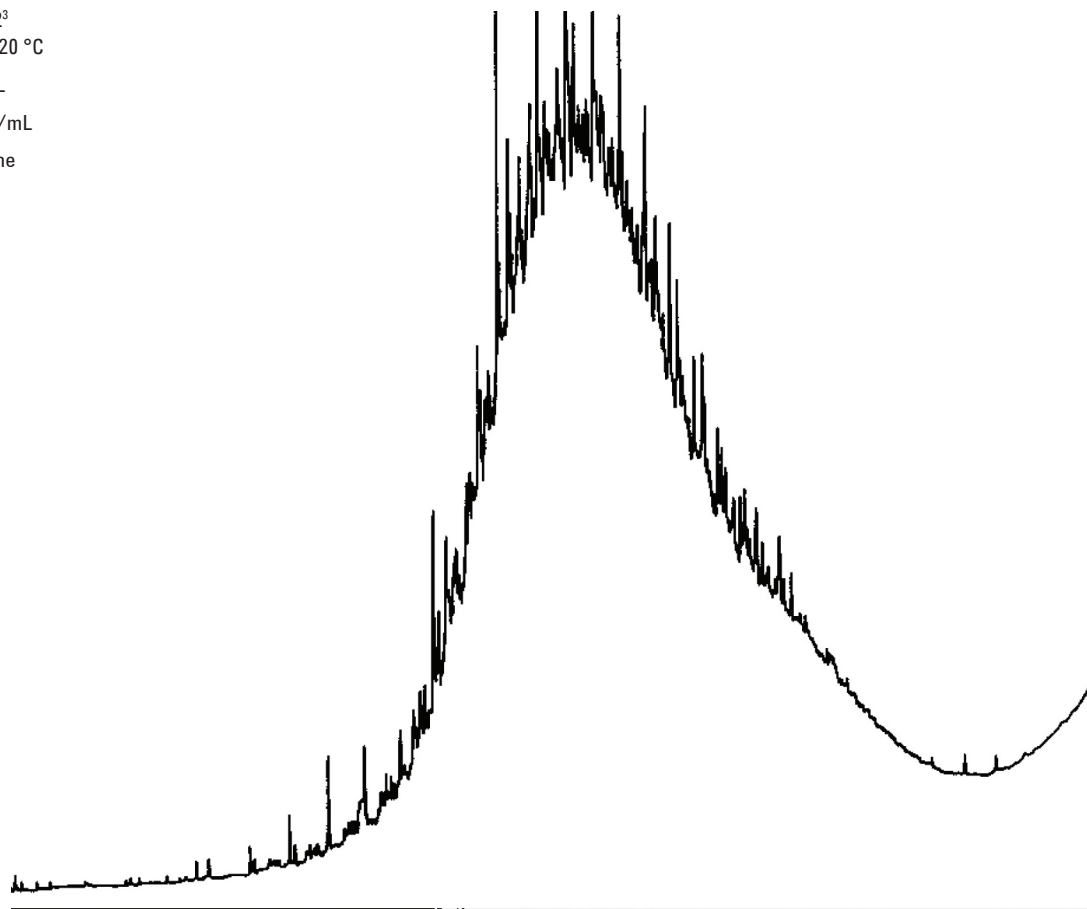
Gas chromatography with an Agilent CP-Sil PAH CB UltiMetal column produces a chromatogram for pattern recognition of 15W/40 motor oil in 60 minutes.



Agilent Technologies

Conditions

Technique : GC-capillary
Column : Agilent CP-Sil PAH CB UltiMetal, 0.25 mm x 25 m
UltiMetal WCOT CP-Sil PAH CB (df = 0.12 μm)
(Part no. CP7440)
Temperature : 70 °C \rightarrow 390 °C, 5 °C/min
Carrier Gas : H₂, 150 kPa (1.5 bar, 21 psi)
Injector : Splitter, 1:40
T = 350 °C
Detector : FID, 2³
T = 420 °C
Sample Size : 0.5 μL
Concentration Range : 2 mg/mL
Solvent Sample : hexane



6C

www.agilent.com/chem

This information is subject to change without notice.

© Agilent Technologies, Inc. 2011

Printed in the USA

31 October, 2011

First published prior to 11 May, 2010

A00587



Agilent Technologies