



# QUARTZ 9000 ENERGY SAE 5W-40



## Synthetic High Performance European Engine Oil

### APPLICATIONS

All types of service

- **QUARTZ 9000 ENERGY 5W-40** was developed for both gasoline and diesel fueled engines. It is recommended for the prior generation of diesel engines--those without particulate filters-- for both passenger and commercial vehicles.
- **QUARTZ 9000 ENERGY 5W-40** are suitable for the most demanding service conditions. This oil is designed to meet manufacturers' requirements for long oil drain intervals.

### PERFORMANCE

International standards

ACEA A3/B4  
API SN/CF

OEM standards

Volkswagen 502.00/505.00 approval  
BMW LL-01 (Longlife 01) approval  
Mercedes-Benz 229.5 approval (backward compatible with 229.3)  
Porsche A40 approval

### CUSTOMER BENEFITS

Increased drain intervals

High technical performance

- Outstanding thermal stability and oxidation resistance even under extreme use conditions.
- Enhanced detergents, dispersants, anti-oxidants, anti-wear and corrosion prevention properties improve the fluid performance under all types of service.
- Excellent low temperature flow properties ensuring easy cold starts. Engine components are lubricated quickly giving longer life.
- Specially designed to meet OEM requirements for long oil drains.

### CHARACTERISTICS

TYPICAL PROPERTIES--QUARTZ 9000 ENERGY 5W-40	
Specific gravity @ 60/60°F	0.854
Viscosity, cSt @ 100°C (ASTM D 445)	14.7
Viscosity, cSt @ 40°C (ASTM D 445)	89.7
Viscosity Index (ASTM D 2270)	172
Cold crank simulator, cp @ (ASTM D 5293)	5900 @ -30°C
Pour Point, °F (°C) (ASTM D 97)	-49 (-45)
Phosphorous, ppm	980
TBN, mg KOH/gram	6
NOACK, ( 15 wt% max loss)	10

## TOTAL Specialties USA, Inc.

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QUARTZ

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This lubricant must be applied as recommended and used for the application for which it was designed. TOTAL Specialties USA, Inc. will have no responsibility for any injury to persons or property resulting from misuse or misapplication of the lubricant. A safety data sheet conforming to the OSHA Hazard Communication Standard 29 CFR Section 1910.1200 can be downloaded at www.totalspecialties.com. Copyright 2016 All rights reserved.