



LUBRICANTS

## Shield<sup>™</sup> Euro-Tech+

Phillips 66<sup>®</sup> Shield Euro-Tech+ is a premium quality, full-synthetic, low-SAPS engine oil designed to provide maximum protection for European passenger cars under all operating conditions. It also is recommended for other vehicles operating at extreme temperatures or under severe driving conditions, such as towing heavy loads. It is recommended for use in many gasoline and light-duty diesel engines.

Shield Euro-Tech+ Motor Oil provides enhanced performance benefits compared with conventional engine oils. These benefits include exceptional oxidation resistance and thermal stability at high temperatures for improved protection against viscosity breakdown and deposit formation; lower volatility for reduced oil consumption; and better low-temperature pumpability for easier starting and faster oil circulation at low temperatures.

Shield Euro-Tech+ Motor Oil meets or exceeds the performance requirements of API Service Category SN, and is approved for service fill under leading European OEM specifications for extended drain applications.

### Applications

- Audi: diesel engines with DPF, extended drain
- BMW: most diesel engines
- Mercedes-Benz: most diesel engines
- Volkswagen: diesel engines with DPF, extended drain
- Passenger cars, light trucks and sport utility vehicles that do not require an ILSAC GF-5 oil for warranty coverage, especially when operating under severe driving conditions

Shield Euro-Tech+ Motor Oil is licensed for:

- API Service SN - SAE 5W-30

Shield Euro-Tech+ Motor Oil meets or exceeds the requirements of:

- ACEA C3-12
- API Service CF
- Chrysler MS 11106

Shield Euro-Tech+ Motor Oil is fully approved for service fill under the following OEM specifications

- BMW Long Life LL-04
- Mercedes Benz Sheet 229.51
- Volkswagen Standard 504.00 & 507.00
- Porsche C30

**Premium Full-Synthetic Passenger Car Engine Oil for Diesel Powered European & North American Vehicles**

KEEPING THE  
WORLD  
RUNNING  
SMOOTHLY. 



## Features/Benefits

- Exceptional resistance to viscosity and thermal breakdown at high temperatures
- Protects against sludge and varnish formation
- Low-ash formulation to protect against diesel particulate filter plugging
- Excellent wear protection
- Protects against rust and bearing corrosion
- Low volatility for reduced oil consumption
- Excellent low-temperature pumpability for protection during cold starts
- Good foam resistance

## Shield™ Euro-Tech+

Typical Properties	
<b>SAE Grade</b>	<b>5W-30</b>
Specific Gravity @ 60°F	0.853
Density, lbs/gal @ 60°F	7.10
Color, ASTM D1500	3.0
Flash Point (COC), °C (°F)	216 (421)
Pour Point, °C (°F)	-39 (-38)
Viscosity, Kinematic	
cSt @ 40°C	80
cSt @ 100°C	12.2
Viscosity Index	164
Cold Cranking Viscosity, cP	5900
@ (°C)	(-30)
High-Temp/High-Shear Viscosity, cP @ 150°C	3.6
Sulfated Ash, ASTM D874, wt %	0.8
Total Base Number (TBN), ASTM D2896	8.85
Phosphorus, wt %	0.0794
Zinc, wt %	0.0875

## Health & Safety Information

For recommendations on safe handling and use of this product, please refer to the Safety Data Sheet via <http://www.phillips66.com/EN/products/Pages/MSDS.aspx>.