

PASSENGER CAR ENGINE OIL

National Full Synthetic[®] 5W-40 (European)



GASOLINE POWERED PASSENGER CAR, SUV AND TRUCK ENGINE OIL

National Full Synthetic® 5W-40 (European)

High Performance Engine Oil for High Performance Engines

National Full Synthetic 5W-40 (European) is formulated with base stock and component chemistry that is preferred by European OEMs. Built on the platform of field-proven salicylate detergent technology, it meets the highest performance requirements established by:

- Mercedes-Benz
- VW
- Opel
- BMW
- Porsche
- Renault

As a full SAPS oil, it also meets API SM and ACEA A3 for gasoline powered engines. For light duty diesel applications it meets API CF and ACEA B4 requirements.

Performance Features

National Full Synthetic 5W-40 (European) stays in grade even under the severe operating conditions experienced by drivers of super high performance vehicles. Combining the salicylate based additive package with the unique features of hydrogenated styrene/diene viscosity modifiers results in the factory fill engine oil specified by most European OEMs.

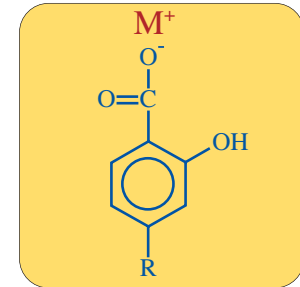
Other performance features include:

- Excellent sludge control
- Superior wear performance
- Extended oil drains, consistent with OEM recommendations
- OEM engine warranty protection
- Sustained fuel economy performance as oil ages
- Rapid engine lubrication at low temperature start-up

The benefits that National Full Synthetic 5W-40 (European) brings to high performance European engines also applies to other OEM brands, including US and Asian vehicles.

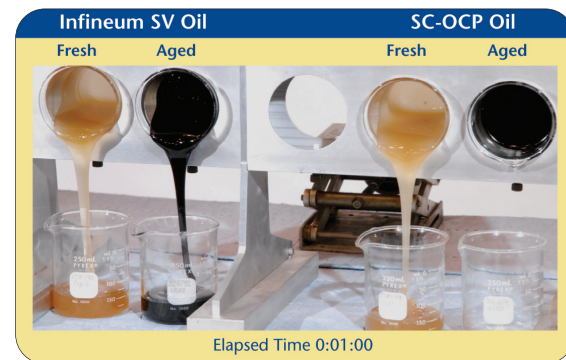
Salicylate Detergent Package

National Full Synthetic 5W-40 (European) engine oil is based on salicylate detergent technology. This detergent package is one of the most effective in neutralizing acidic combustion products in the crankcase and combustion chamber. Lacquer, varnish and carbon deposits are also controlled, thus reducing piston ring sticking to minimize any loss in power.



Styrene/Diene Co-Polymer Viscosity Modifier

Together with the high performance additive package, National Full Synthetic 5W-40 (European) is formulated with one of the highest quality viscosity modifiers available for crankcase applications. The hydrogenated styrene/diene star polymer molecule gives unsurpassed shear stability coupled with enhanced low temperature characteristics. Reduced engine deposits are achieved using this viscosity modifier versus other OCP polymers typically used in lower performing engine oils.



Even after extended use, National Full Synthetic® 5W-40 (European) pumps faster at cold start than competing oils.

Synthetic Base Stocks

Superior quality base stocks, manufactured in state-of-the-art petrochemical facilities, provide world-class lubricant performance in gasoline fueled engines. These lubricant stocks are inherently more oxidatively and thermally stable when compared with conventional base stocks. Improved wear performance and reduced oil consumption are the result.

Specifications National Full Synthetic® 5W-40 (European) meets these performance requirements by viscosity grade:

- API SM/CF
- ACEA A3/B3-08 and B4-08
- BMW Longlife-01
- Mercedes-Benz p229.5
- VW 502 00/505 00
- Porsche
- Opel GM-LL-B-025
- Renault RN0700/RN0710

PINNACLE OIL, INC.

5009 West 81st Street, Indianapolis, IN 46268
800-829-8899 • www.pinnoil.com

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