

## ZEPRO EURO SPEC 5W-40

### Premium Synthetic Technology Engine Oil

#### Description and Application

ZEPRO EURO SPEC 5W-40 is a premium synthetic engine oil optimized specifically for high performance European engine technologies. A robust and perfectly balanced combination of advanced technology additive components delivers superior protection while enabling maximum performance.

ZEPRO EURO SPEC 5W-40 is the perfect solution for drivers who wish to maintain their engines to "like-new" condition, even after many miles of rigorous driving.

ZEPRO EURO SPEC 5W-40 significantly exceeds the standard performance characteristics of most engine oils formulated for the North American market that claim API SN and ILSAC GF-5 performance. ZEPRO EURO SPEC 5W-40 meets or exceeds the highly demanding requirements of the most prestigious European brands, such as BMW, Mercedes-Benz, Audi and Porsche, among others. Specific applications include naturally aspirated and turbo-equipped gasoline engines and naturally aspirated diesel and high-speed turbodiesel (TDI) engines (not equipped with Diesel Particulate Filter or DPF).

#### Features and Benefits

- Provides additional protection to engines using bio-fuels, including E85 (ethanol) and biodiesel (up to 20% biofuel).
- Outstanding diesel-fueled engine performance: Superior dispersant chemistry to effectively control soot contamination that can cause excessive wear and viscosity increase. Robust detergent technology delivers excellent piston cleanliness and outstanding TBN retention under the most severe driving conditions.
- Advanced anti-wear technology combines surface-active additive chemistry with high molecular-weight lubricant film enhancers to provide extended engine life and durability.
- Extended viscosity grade coverage and stability for all-seasons and extreme climate applications. Maintains stable viscosity and low temperature flow properties throughout standard and extended drain intervals.
- Turbo formula: Fully synthetic base oils fortified with advanced anti-oxidant and inhibitor additive chemistry provide enhanced turbocharger performance and durability. Specifically engineered formulation to resist the formation of harmful carbon and varnish deposits at extreme temperatures.

#### Typical Characteristics

Test	Unit	Method	Typical Results
Appearance	----	Visual	Amber/Clear
Density @ 15°C	g/cm <sup>3</sup>	ASTM D4052	0.849
Viscosity, Kinematic @ 40°C	cSt	ASTM D445	84.1
Viscosity, Kinematic @ 100°C	cSt	ASTM D445	14.4
Viscosity Index	---	ASTM D2270	179
Viscosity, HTHS @ 150°C	cP	ASTM D4683	3.8
Viscosity, CCS @ -30°C	cP	ASTM D5293	6,250
Viscosity, MRV @ -35°C	cP	ASTM D4684	32,200
Flash Point, COC	°C	ASTM D92	227
Noack Volatility	wt%	ASTM D5800	9.9
Total Base Number (TBN)	mgKOH/g	ASTM D2896	11.1

#### Specifications & Approvals

ACEA A3/B4-12 (-10, -08)  
 ACEA A5/B5-12 (-10, -08)  
 API SN/CF  
 MB 229.3\*  
 MB 229.5\*  
 Volkswagen VW50200 (2005)\*  
 Volkswagen VW50500 (2005)\*  
 BMW Longlife-01\*  
 Opel GM-LL-A-025\*  
 Opel GM-LL-B-025\*  
 Porsche A40\*  
 Renault RN0700\*  
 Renault RN0710\*

\*European OEM Approvals/Specifications: ZEPRO EURO SPEC 5W-40 meets the performance requirements of these specifications and is the appropriate fluid to use in all vehicle applications where these specifications and SAE 5W-40 viscosity grade are indicated.

Always consult your vehicles maintenance guide for detailed instructions.



Idemitsu engineers advanced technology engine oils that provide superior fuel economy and unsurpassed engine protection under the most severe operating conditions. It is no surprise that Idemitsu has been selected as the provider of factory and service-fill automotive lubricants to many of the largest global vehicle manufacturers.

#### Idemitsu Lubricants America Corp.

-  Detroit Sales Office  
3000 Town Center, Ste 2820  
Southfield, MI 48075
-  +1 248.355.0666
-  inquiries@ilacorp.com
-  www.ilacorp.com



#### Idemitsu is ISO Certified:

ISO 9001:2008  
 ISO 14001:2004  
 ISO/TS 16949:2009



*Idemitsu Lubricants America Corporation Typical Properties are provided as reference and may vary slightly. They do not constitute a specification. Product formulations and information contained herein are subject to change without notification.*