

# BIOBLEND ENGINE OIL

**Overview:** BioBlend Engine Oils are renewable, synthetic passenger car motor oils formulated from a blend of renewable base oils and an industry leading additive package. These advanced renewable engine oils perform on par with the leading synthetic motor oils on the market and provide up to a 2.6% fuel economy savings. BioBlend Engine Oils fit into the existing supply chain, offer drop-in compatibility, and are the first renewable engine oils to achieve full American Petroleum Institute (API) approval.

## Specifications, Approvals, Recommendations:

- API-SN Resource Conserving, ILSAC GF-5
- USDA BioPreferred Program



Physical Properties			
SAE Grade	SAE 0W-20 API SERVICE SN RESOURCE CONSERVING	SAE 5W-20 API SERVICE SN RESOURCE CONSERVING	SAE 5W-30 API SERVICE SN RESOURCE CONSERVING
Density, ASTM D4052 @ 15°C, kg/l	0.83	0.83	0.83
Viscosity, ASTM D445 @ 40°C, cSt	46.0	46.2	65.8
Viscosity, ASTM D445 @ 100°C, cSt	8.4	8.2	10.5
Viscosity Index (VI), ASTM D2270	157	154	152
Pour Point, ASTM D97, °F (°C)	-44 (-42)	-49 (-45)	-44 (-42)
Flash Point, ASTM D92, °F (°C)	428 (220)	428 (220)	428 (220)
NOACK Volatility %, ASTM D5800	10	9	7
HTHS Viscosity, ASTM D4683 mPa-s @ 150°C	2.5	2.6	3.1
Environmental Stewardship			
Biodegradability, OECD 301B, %	>50	>50	>50
Minimally Toxic OECD 201 - Algae (EC 50), 72 hr, mg/L OECD 202 - Daphnia (EC 50), 48 hr, mg/L OECD 203 - Fish (LC 50), 96 hr, mg/L	PASS	PASS	PASS
Not Bioaccumulative* [*Calculated value as per EPA standard]	PASS	PASS	PASS
Additional Environmental Features and Characteristics			
Bio-based Content, ASTM D6866, %	41	41	41

## Key Attributes:

- Renewable, Synthetic, Biodegradable: Helps prevent deposits and sludge build-up.
- Excellent overall wear protection and lubrication.
- Formulated to exceed the industry's most rigorous standards and outperform conventional oils.
- Will not biodegrade in your engine. In order for biodegradation of the oil to occur, you must have exposure to the environment.
- Allows for maximum oil duration and oil change intervals. Please consult the vehicle owner's manual for proper oil change interval information.
- Extremely low pour point allows for cold start protection.
- Formulated for gasoline engines in passenger cars, light trucks, and SUV's.
- Low viscosity grades are optimized for increased fuel efficiency.



For more information about this and our other products contact us at Zen Earth Corp 877.769.7632 or at email [products@zenearthcorp.com](mailto:products@zenearthcorp.com).

