



# TECHNICAL DATA SHEET

## 15W-40

Supreme Synthetic  
HEAVY DUTY DIESEL Engine Oil

### DESCRIPTION

B2 biOil™ 15W-40 “biodegradable/bio-based” Supreme Synthetic HEAVY DUTY DIESEL Engine Oil is specially formulated using advanced additive technology made with farmed feedstocks and naturally bio-derived renewable compounds for heavy duty diesel engines requiring API CK-4, CJ-4 and earlier categories for over-the-road and turbo-charged diesel or gasoline engines. It is a superior performing synthetic lubricant that is much safer for the environment and backwards compatible with previous API Oil categories while also providing added protection for trucks and buses using compressed natural gas (CNG) or liquefied natural gas (LNG).

### APPLICATIONS

The oil is perfect for heavy duty diesel engines operating continuously under very high speed, high temperatures and heavy load conditions...including both on and off highway, trucking, bus, mining, construction, agriculture and marine applications in the world’s harshest environments.

### TECHNICAL AND ENVIRONMENTAL FEATURES AND BENEFITS

B2 biOil™ advanced synthetic additive technology helps protect your engine and the environment. They also provide an alternative to petroleum products while still meeting the top performance standards with cleaner emissions while protecting vehicle components against wear and improving fuel efficiencies:

**High Oxidative Stability - Low Volatility - Excellent Anti-Wear Performance - High Viscosity Index – Hydrolytic Stability – Low Pour Point – Natural Detergency – Long Lasting (Extended Change Intervals) – High Shear Stability – Less Maintenance**

**High Biodegradability – Low Bioaccumulation – Low Toxicity – High Bio-Content – Rapid Breakdown – Minimal Environmental Risk – Reduced Risk to Wildlife and the Operator – Renewable Carbon Based**

### PHYSICAL PERFORMANCE PROPERTIES

Physical Properties	Method	b2 biOil 15W-40
Kinematic Viscosity @ 40°C (cSt)	ASTM D445	117.3
Kinematic Viscosity @ 100°C (cSt)	ASTM D445	14.9
Viscosity Index	ASTM D2270	144
Flash Point, COC, °C	ASTM D92	223
HTHS Viscosity @ 150°C (mPa-s)	ASTM D4683	4.2
Pour Point, °C	ASTM D97	-40
MRV Viscosity (mPa-s)	ASTM 4684	16,600
CCS @ -20°C cP	ASTM D5293	5,200
NOACK	ASTM D5800	4
Total Base Number (TBN)	ASTM D2896	9.2



This product is not classified as hazardous under OSHA definition and not to be used for purposes other than its intended use. Simply wash with soap and water after handling. Although b2 biOil is readily biodegradable, it should be returned once used to used-oil collection centers since it is fully compatible with existing recycling and re-refining infrastructures. Safety Data Sheets are available upon request.



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