



TOP 1 OIL PRODUCTS COMPANY

Product Data Sheet

851 Burlway Road, Ste. 600; Burlingame, CA 94010 USA www.top1oil.com Rev. Aug. 2006

TOP 1 ENGINE OIL TREATMENT-GOLD

DESCRIPTION

TOP 1 ENGINE OIL TREATMENT-GOLD is a fast-action, multi-power oil additive engineered for high performance engines. TOP 1 GOLD is engineered to improve the oil by helping to retain its normal viscosity during constant changes in temperature. TOP 1 GOLD coats the engine with a film of oil to prevent premature wear, to improve engine performance and prolong engine life. TOP 1 GOLD helps stop oil burning, reduces hydraulic valve lifter noise and improves compression. TOP 1 GOLD is compatible with both petroleum and synthetic oils. In addition, TOP 1 GOLD is recommended for use in both gasoline and diesel engines.

FEATURES AND ADVANTAGES

- Maintains engine power and performance
- Improves engine power and performance
- Improves engine compression
- Improves fuel efficiency
- Maintains high viscosity properties
- Fights motor oil breakdown
- Compatible with mineral and synthetic based oils
- Engineered for both diesel and gasoline engines
- Ideal for single & multi-grade engine oils

TYPICAL SPECS

Color	Amber
Clarity	Clear
Specific Gravity	0.88
Viscosity	
cSt @ 40°	1600
cSt @ 100°F	60
Flash Point F°	420
Product Number	10100 24 x 15 oz.

VALUES SHOWN HERE ARE TYPICAL AND MAY VARY



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TOP 1 GREEN SUPER OIL TREATMENT

DESCRIPTION

TOP 1 GREEN SUPER OIL TREATMENT is the latest advance in crankcase additive technology. TOP GREEN's proprietary **3 in**

1 formula is engineered to provide the following performance benefits:

1. **Viscosity Index Improver** – Resists viscosity breakdown.
2. **Friction Modifier** – Proprietary blend of green molybdenum organic reduces copper wear dramatically when compared to ordinary treatments.
3. **Engine Treatment** – TOP GREEN's "viscous cling" properties ensure proper lubricity on all internal engine parts to prevent metal-to-metal contact at engine start-up, where 80% of engine wear occurs.

TOP GREEN is ideal for use in both gasoline & diesel engines, and is compatible with petroleum and synthetic oils. Try TOP GREEN and feel the difference. You will see why no other product compares. TOP GREEN – "SIMPLY THE BEST, BETTER THAN THE REST".

FEATURES AND ADVANTAGES

- Reduces oil consumption
- Prevents friction and wear
- Prolongs engine life
- Increases engine power
- Improves fuel efficiency
- Reduces metal wear
- Ideal for use with both synthetic and mineral based lubricants
- Ideal for use in both diesel and gasoline engines
- Engines run cooler & smoother
- Resists viscosity breakdown

TYPICAL SPECS

Color	Bright Clear Green
Specific Gravity	0.8
Viscosity	
cSt @ 40°C	380
cSt @ 100°C	36
Product Number	
24 x 10 oz.	10108C
53 Gal. Drum	10108-7

VALUES SHOWN HERE ARE TYPICAL AND MAY VARY



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TOP 1 SUPER COOLANT

DESCRIPTION

TOP 1 SUPER COOLANT is the ideal year-round radiator protection for tropical and sub-tropical climates. SUPER COOLANT is an ethylene glycol based coolant designed for use in radiator cooling systems. SUPER COOLANT'S unique formula is designed to extend the life of cooling system components and is fortified with a proprietary additive package that fights rust and corrosion.

FEATURES AND ADVANTAGES

- Prevents radiator overheating
- Prevents rust and corrosion
- Eliminates foaming
- Ideal for air conditioned cars
- Helps to extend radiator life

TYPICAL SPECS

Color Florescent	Green
Clarity	Clear
Specific Gravity	1.007
Product Number	10120-M 24 x 15 oz

VALUES SHOWN HERE ARE TYPICAL AND MAY VARY



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TOP 1 CARBURETOR CLEANER

DESCRIPTION

TOP 1 CARBURETOR CLEANER is designed to work quickly, economically and conveniently while providing “instant” tune-up benefits. TOP 1 CARB CLEANER is guaranteed to dissolve gum, varnish, sludge and lead deposits to dramatically improve gas mileage. TOP 1 CARB CLEANER frees and loosens mechanisms bound by deposits on external parts and penetrates and lubricates internal carburetor pumps and valves to insure optimum performance.

FEATURES AND ADVANTAGES

- Removes gum and lead deposits
- Provides better mileage
- Increases engine power and acceleration
- Smooths idling
- Frees and loosens mechanism
- Use on PVC systems to open clogged valves
- Helps prevent emission of exhaust pollutants
- Gives “new-car performance”

TYPICAL SPECS

Product Number	10140	12 x 13 oz.
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VALUES SHOWN HERE ARE TYPICAL AND MAY VARY



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TOP 1 RUSTGUARD-80

DESCRIPTION

TOP 1 RUSTGUARD-80 (RG-80) is a multi-purpose penetrant designed to protect metal from rust and corrosion. This revolutionary formula demineralizes ignition systems, spark plugs, coils, distributors, magnetos and generators. TOP RG-80 is truly the “universal” multi-purpose lubricant for all industrial and household applications for smooth working squeak-free operation.

FEATURES AND ADVANTAGES

- Rust inhibitor, separates rusted parts
- Lubricates metal parts
- Non-greasy, non-staining
- All purpose penetrant

TYPICAL SPECS

Product Number

10150

VALUES SHOWN HERE ARE TYPICAL AND MAY VARY



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TOP 1 ULTRA PERFORMANCE 25W50

DESCRIPTION

TOP 1 ULTRA PERFORMANCE 25W50 is a heavy duty diesel engine oil designed to meet the warranty requirements of most diesel engine manufacturers and was specifically developed to be a "universal" engine oil recommended for four-cycle diesel engines. It is suitable over a wide range of operating service and temperature conditions and also when using diesel fuel of either high or low fuel sulfur levels. TOP 1 ULTRA PERFORMANCE 25W50 is a blend of highly refined base oils and specially selected additives, including our proprietary Viscous Cling (VC) which is designed to provide excellent performance in all recommended applications. Contains an effective detergent-dispersant package which keeps the sulfated ash at a minimum while providing excellent protection against fuel soot and control of oil consumption during service. TOP 1 ULTRA PERFORMANCE 25W50 exceeds API CF-4/SG, service categories CF-4/SG and is recommended for diesel engines in off-highway service as well as over the road.

FEATURES AND ADVANTAGES

- Excellent soot control in the Mack T-8 and Mack T-8E engine test which translates to cleaner engines and reduced wear.
- Minimizes ash deposits in the combustion chamber and on valve surfaces.
- Highly oxidation stable - protects engine against sludge and varnish deposits.
- High alkaline reserve permits extending drain interval to the maximum allowed by the manufacturer.
- Gives excellent deposit and wear protection in gasoline engines.
- Provides protection comparable to specialty formulated gasoline service only products.

TYPICAL SPECS

GRADES, SAE	ASTM Test	25W-50
Gravity, ° API	D-287	29.0
Flash Point, °C.	D-92	230
Pour Point, °C	D-97	-24
Viscosity:		
cSt @ 40° C.	D-445	160
cSt @ 100° C.	D-445	20.0
Viscosity Index	D-2270	140
Color	D-1500	3.0
Sulfated Ash, wt. %	D-874	0.7
Zinc, wt. %		0.10
TBN	D-2896	7
Product Number		
12x1 Liter		10211-25
6x4 Liter		10213-25
1x18.95 Liter		10215-25
1x200 Liter		10217-25

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TOP 1 XLR 15W-40

DESCRIPTION

TOP XLR (Extra Long Range) 15W-40 is a premium grade universal oil that provides you with a one-drum inventory to help cut your fleet's high operating costs. It exceeds the requirements of a broad range of diesel and gasoline crankcase oil performance specifications. TOP XLR helps extend engine life through reduced deposits and wear. The continued use of TOP XLR will also impart improved fuel economy. TOP XLR meets the warranty requirements of most naturally aspirated, turbo and supercharged diesel engines such as those manufactured by Caterpillar, Cummins, Detroit Diesel and Mack. TOP XLR exceeds API SERVICE CI-4, CH-4/SL, SJ.

FEATURES AND ADVANTAGES

- Reduced operating costs by extending the time between overhauls of the engine
- Resists oxidation which reduces oil thickening
- Neutralizes acidic combustion by-products
- Resists rusting of vital engine parts
- Dispersant additives minimizes oil thickening caused by soot buildup
- Detergency additives minimize formation of carbon, sludge and varnish deposits
- Resists foaming which can cause inadequate lubrication
- High viscosity index minimizes viscosity breakdown during hi-temp operation
- Prolongs engine life

TYPICAL SPECS

SAE Grade	15W/40
API Gravity	27.7
Viscosity	
cSt @ 40°C	130
cSt @ 100°C	15
SUS @ 100°F	986
SUS @ 210°F	85
Viscosity Index	145
Flash Point C° (F°)	213 (415)
Total Base Number	9.1
Foam Test	Pass
Ash, Sulfated, WT %	1.15
Zinc, WT %	135
Product Number	
12 x 1 Liter	10241-1
6 x 4 Liter	10243-1
4 x 5 Liter	10243-2
1 x 18.95 Liter	10255
1 x 200 Liter	10257

VALUES SHOWN HERE ARE TYPICAL AND MAY VARY



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TOP 1 HD GEAR LUBE SAE 90 & 140

DESCRIPTION

TOP 1 HD GEAR LUBRICANTS are sulfur-phosphorous type gear oils meeting API Service Categories MT-1 and GL-5. TOP HD GEAR LUBES are manufactured from premium quality, High VI, paraffinic base oils and contain a carefully balanced additive package to provide maximum gear protection and long lubricant life. This lubricant is fortified with rust and corrosion inhibitors, a foam inhibitor, pour point depressants and contains friction modifiers. TOP HD GEAR LUBRICANTS are available in SAE-90 and 140 grades.

FEATURES AND ADVANTAGES

- Long lubricant life
- Protects against rust, corrosion and foaming
- High film strength
- High stability
- All weather protection
- Extended gear life

TYPICAL SPECS

GRADE, SAE	SAE-90	SAE-140
API Service Designation	GL-5	GL-5
API Gravity	26.4	23.8
Viscosity:		
SUS @ 100°F	808	3000
SUS @ 210°F	78	160
cSt @ 40°C.	204.5	618.6
cSt @ 100°C.	16.51	33.48
Viscosity Index	82	84
Flash Point, °C (°F)	247 (476)	250 (482)
Fire Point, °C (°F)	319 (606)	323 (613)
Pour Point °C (°F)	-15 (5)	-15 (5)
Foam Test	Pass	Pass
Product Number		
1x18.95 Liter	10325	10335
1x208 Liter	10327	10337

VALUES SHOWN HERE ARE TYPICAL AND MAY VARY



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TOP 1 HEAVY DUTY GEAR LUBE

DESCRIPTION

TOP 1 HEAVY DUTY GEAR LUBES are thermally stable, extreme pressure, multi-purpose gear lubricants that exceed API service classification GL-5. TOP 1 HEAVY DUTY GEAR LUBE is manufactured from the highest quality base oils fortified with VI improvers, rust inhibitors, foam suppressants, anti-wear, and extreme pressure additives and pour point depressants. These multi-viscosity grades may be used over wide temperature ranges.

FEATURES AND ADVANTAGES

- Exceptional thermal and oxidation stability
- All-weather protection
- Long lubricant life
- Protects hypoid gears from wear and scuffing
- Multi-viscosity provides year round use
- Compatible with other automotive gear oils

TYPICAL SPECS

Grade	75W/90	80W/90	85W/140
API Service Designation	GL-5	GL-5	GL-5
API Gravity	28.2	25.2	23.3
Viscosity			
cSt @ 40°C	106	143	437
cSt @ 100°C	15	14	27.5
Viscosity Index	95	98	87
Flash Point °C (°F)	216 (420)	192 (338)	212 (414)
Fire Point °C (°F)	238 (460)	222 (432)	262 (507)
Pour Point °C (°F)	-43 (-45)	-27 (-17)	-15 (5)
Foaming Tendency	0/0/0	0/0/0	0/0/0
Product Number			
1x18.95 Liter	10355-S	10355	10345
1x200 Liter	10357-S	10357	10347

VALUES SHOWN HERE ARE TYPICAL AND MAY VARY



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TOP 1 AW HYDRAULIC OILS

DESCRIPTION

TOP 1 AW HYDRAULIC OILS are premium quality universal oils designed for use in modern high-pressure high-speed industrial hydraulic systems. They are made from solvent refined, paraffinic oils and are formulated with a special zinc dithiophosphate additive to offer wear protection to pumps and motors in high pressure hydraulic systems. In addition TOP 1 AW HYDRAULIC OILS have an effective dispersant to keep close-tolerance valves clean and freely operating for maximum efficiency of the system. TOP 1 AW HYDRAULIC OILS also have a characteristic orange dye which helps to identify the product and to more easily locate leaks in the system. They are rust, oxidation and foam inhibited. TOP 1 AW HYDRAULIC OILS fulfill the recommendations of major hydraulic pump manufacturers which call for "anti-wear" or motor oils.

FEATURES AND ADVANTAGES

- Excellent anti-wear protection
- High oxidation stability
- Orange dye allows for identification of leakage in hydraulic systems
- Excellent rust and corrosion protection
- Dispersant additive package provides continuous cleaning action
- Minimum viscosity change
- Passes all major pump manufacturers requirements
- Fast water separation
- Excellent filterability

TYPICAL SPECS

Grades, ISO	32	46	68
API Gravity	29.3	28.4	27.7
Viscosity			
SUS @ 100°F	158	250	400
SUS @ 210°F	43	48	58
cSt @ 40°C	30.4	43.6	64.5
cSt @ 100°C	5.3	6.5	8.2
Viscosity Index	105	100	95
Flash Point C° (F°)	216 (420)	226 (438)	226 (438)
Fire Point C° (F°)	228 (442)	248 (478) 2	38 (460)
Foam Test	0/0/0	0/0/0	0/0/0
Rust Test	Pass	Pass	Pass
Oxidation Stability, Hours	1000+	1000+	1000+
Product Number			
1 x 18.95 Liter		10375	10365
1 x 200 Liter	10387	10377	10367

VALUES SHOWN HERE ARE TYPICAL AND MAY VARY



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TOP 1 SUPER AUTOMATIC TRANSMISSION FLUID

DESCRIPTION

TOP 1 SUPER AUTOMATIC TRANSMISSION FLUID (ATF) is a high performance, multipurpose automatic transmission fluid formulated to meet pre-2007 GM and Ford specifications. It is blended using prime base stocks and additives that provide oxidative and thermal stability, friction control, load carrying ability, corrosion and wear protection. SUPER is specially formulated to prevent shudder and practically eliminates transmission overhauls due to sludge, corrosion and wear. It is an excellent choice in any transmission where the manufacturer recommends a DEXRON-III, MERCON, ALLISON C4, or Caterpillar TO-2 fluid, DENISON and VICKERS pumps.

FEATURES AND ADVANTAGES

- Excellent seal compatibility
- High resistance to oxidation
- Minimizes varnish and sludge formation
- No corrosion or rusting of parts
- Excellent for use as a power steering fluid
- Quiet performance
- Exceptional thermal stability
- Optimum friction characteristics
- Retains low temperature fluidity and high temperature stability

TYPICAL SPECS

API Gravity	33.4
Viscosity	
SUS @ 100°F	180
SUS @ 210°F	43
cSt @ 40°C	38.5
cSt @ 100°C	5.8
Viscosity Index	172
Flash Point C°(F°)	168 (338)
Pour Point C°(F°)	-45 (-45)
Zinc, WT%	0.0
Part Number	
12/1 Quart	10392
4/5 Liter	10394
1x18.95 Liters	10392-5
1x200 Liters	10392-7



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TOP 1 MOA HD 40 MOTOR OIL

DESCRIPTION

TOP 1 MOA HD 40 MOTOR OIL is high performance oil designed to meet the warranty requirements of most domestic and foreign car manufacturers. Specifically recommended for turbo-charged and small displacement, high RPM gasoline engines. These engines experience higher operating temperatures and require a motor oil which provides maximum protection against both viscosity and thermal breakdown.

This motor oil is a blend of the highest quality base oils and special additives to protect against high temperature oxidation, wear, and viscosity breakdown. Additionally fortified with detergent-dispersant and rust and corrosion inhibitor to keep engine exceptionally clean and free from sludge, varnish, and rust.

FEATURES AND ADVANTAGES

- Meets and exceeds car manufacturer warranty requirements.
- High oxidation stability – protects engine from oil thickening, high temperature sludge and varnish deposits.
- Shear stable viscosity improver – protects against viscosity breakdown.
- Effective detergent-dispersants keeps engine clean.
- Multi-grades provide full protection in all climates with easy startup.
- High TBN/alkaline reserve effectively neutralizes corrosive acids to protect turbo bearings and other vital engine surfaces.
- Anti-wear agents effectively protect cam lobes and other highly loaded parts from wear.

TYPICAL SPECS

SAE Grade	40
Specific Gravity	29.0
Viscosity	
SUS @ 100°F	852
SUS @210°F	83.8
cSt @ 40°C	162.4
cSt @ 100°C	16.0
Viscosity Index	102
Flash Point, COC, C° (F°)	260 (500)
Fire Point, °C (°F)	277 (530)
Pour Point, COC, C° (F°)	-7 (20)
Sulfated Ash, wt %	0.75
Zinc, wt %	0.09
Color	Purple
TBN, D-2896	5.7
Product Number	10555

VALUES SHOWN HERE ARE TYPICAL AND MAY VARY



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TOP 1 SYNTHETIC HIGH-TEMP GREASE

DESCRIPTION

TOP 1 SYNTHETIC HIGH-TEMP GREASE is a multi-purpose lithium complex grease formulated with synthetic base oils, and includes our proprietary synthetic organometallic antimonies which results in this balanced formula grease unsurpassed in adhesive and film strength quality. This grease is designed to “stay-in-place” under the most severe operating conditions to resist water wash-out and wear from shock loading. TOP 1 SYNTHETIC HIGH-TEMP GREASE’s high Timken OK load provides more than twice the protection than conventional greases.

FEATURES AND ADVANTAGES

- Premium quality synthetic lithium complex grease
- Fully additive treated: EP/Anti-wear, rust and oxidation inhibited
- NLGI “GC-LB” rated for use as a lubricant for the drive shaft, chassis, and wheel bearing
- An exceptionally versatile multipurpose grease: Recommended for use whenever a grease is used in autos, buses, heavy & light-duty trucks
- Highly water washout resistant and water insoluble
- Excellent for heavy duty industrial use
- Superior wheel bearing and chassis performance

TYPICAL SPECS

Grade, NLGI	2	3
Penetration Range	265-295	220-250
Dropping Point °C (°F)	>288 (550)	>288 (550)
Viscosity		
cSt @ 40°C	538	542
cSt @ 100°C	38.9	39.6
SUS @100°F	3000	3100
SUS @ 210°F	165	170
Four Ball Wear mm, D-2266	.045	.045
Water Washout, wt% loss @ 175°F	2.5	2.5
Viscosity Index	145	145
Timken OK Load	80 lbs.	80 lbs.
Thickener	Synthetic Lithium Comp	Synthetic Lithium Comp
Color	Dark Blue	Dark Blue
Product Number		
24 x 1 lbs	10620	10630
50 x 14 oz	10621	10631
12 x 1 lbs	10622	10632
6 x 4 lbs	10624	10634
1 x 35 lbs	10625	10635
1 x 400 lbs	10627	10637

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TOP 1 SUPER SYNTHETIC BLEND MOTOR OILS

DESCRIPTION

TOP 1 SUPER SYNTHETIC BLEND MOTOR OILS are superior quality, synthetic-blend automotive engine oil. TOP 1 Super Synthetic Blend Motor Oil are formulated with SYNGEN 2000 base oils and additives in order to provide maximum engine protection against wear during both cold cranking and high temperature operation. TOP 1 Super Synthetic Blend Motor Oils will provide excellent lubrication and superior performance during severe service caused by stop and go driving. TOP 1 Super Synthetic Blend meet the following API requirements:

5W30 SM

10W30 SM

10W40 SL

FEATURES AND ADVANTAGES

- Provides excellent anti wear protection.
- Superior all-weather protection.
- Protects against thermal breakdown.
- Provides friction-reducing properties to increase gasoline mileage.

TYPICAL SPECS

SAE Viscosity Grade	5W-30	10W30	10W40
Gravity, °API	32.0	32.5	30.3
Flash Point, C°(F°)	232 (450)	222 (432)	234 (453)
Pour Point, C°(F°)	-36 (-33)	-35 (-31)	-34 (-29)
Viscosity:			
SUS @ 100°F	319	450	750
SUS @ 210°F.	63.7	61.1	71.0
cSt @ 40°C.	64.5	71.9	104
cSt @ 100°C.	11.0	10.8	14.8
Viscosity Index	159	151	148
Color,	4.0	4.0	4.0
Sulfated Ash, Wt. %	0.67	0.93	0.90
Zinc, Wt. %	0.10	0.10	0.10
TBN	8.8	8.6	8.3
Product Number			
6x4 Liter	10700-2	10700-3	10700-4
4x5 Liter	10704-3		
1x18.95 Liter		10700-35	10700-5
1x200 Liter		10700-37	10700-7
12x1 Liter	10704-1	10700-1	10741-1
	10704-K (Silver Bottle)		
12x1 Quart			10712

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TOP 1 SUPER SYNTHETIC BLEND MOTOR OILS

DESCRIPTION

TOP 1 SUPER SYNTHETIC BLEND MOTOR OIL 5W30 is a superior quality, synthetic-blend automotive engine oil. TOP 1 Super Synthetic Blend Motor Oil is formulated with SYNGEN 2000 base oils and additives in order to provide maximum engine protection against wear during both cold cranking and high temperature operation. TOP 1 Super Synthetic Blend Motor Oils will provide excellent lubrication and superior performance during severe service caused by stop and go driving.

TOP 1 SUPER SYNTHETIC BLEND MOTOR OIL 5W30 meets all the requirements specified in the International Lubricant Standardization and Approval Committee (ILSAC) specification GF-4, API SM and MIL-L-46152E. It is recommended for domestic and foreign high performance engines – especially recommended for small, high RPM engines including those that are turbocharged. Recommended for passenger cars, light duty pickups, motorcycles and other gasoline engines in mobile and stationary service. 5W30 meets the warranty requirements of Chrysler factory fill specification, Ford Motor Co. specification ESE-M2C153-E, and General Motors specification GM 6094-M.

FEATURES AND ADVANTAGES

- Meets and exceeds U.S. Car maker warranty requirements
- Highly oxidation stable – protects engine from oil thickening, high temperature sludge and varnish deposits
- Shear stable viscosity index improver – protects against viscosity breakdown in severe service
- Effective detergent-dispersants keep engine parts clean
- Improved fuel economy means better gas line mileage
- High TBN/alkaline reserve effectively neutralizes corrosive acids formed by combustion to protect critical turbo bearings and other vital engine surfaces

TYPICAL SPECS

SAE Viscosity Grade	5W-30
Gravity, °API	32.0
Flash Point, C°(F°)	232 (450)
Pour Point, C°(F°)	-36 (-33)
Viscosity:	
SUS @ 100°F	319
SUS @ 210°F.	63.7
cSt @ 40°C.	64.5
cSt @ 100°C.	11.0
Viscosity Index	159
Color,	4.0
Sulfated Ash, Wt. %	0.67
Zinc, Wt. %	0.10
TBN	8.8
Product Number	
6x4 Liter	10700-2
4x5 Liter	10704-3
12x1 Liter	10704-1

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TOP 1 EVOLUTION FULLY SYNTHETIC MOTOR OIL SAE 5W40

DESCRIPTION

TOP 1 EVOLUTION FULLY SYNTHETIC MOTOR OIL SAE 5W40 is a high performance 100% fully synthetic motor oil which is designed to meet the latest car manufacturers warranty requirements. Specifically formulated to meet the demands of small displacement high RPM fuel efficient engines found in today's domestic and foreign automobiles. These engines experience higher operating temperatures and require a motor oil, which offers maximum protection against both viscosity and thermal breakdown.

The oil is 100% full synthetic of the highest quality and special additives, which protects against high temperature oxidation, wear and viscosity breakdown. It meets the "Mid-SAPS" passenger car lubricant requirements as specified by various European OEMs and in line with the Euro 4 & 5 requirements. Exceeds API SM/CF, ACEA A3/B3/-04/B4-04. Meets OEM requirements like VW 502.00/505.00, MB229.31, BMW Long Life—04, Porsche.

FEATURES AND ADVANTAGES

- Meets the latest "Mid-SAPS" requirements.
- Shear stable viscosity index improvers protects against viscosity breakdown in severe service.
- Sulfated Ash of 0.08% with phosphorous requirements of 0.08%.
- Recommended for most engines meeting Euro 4 & Euro 5 requirements.
- Effective dispersants detergents keep engine parts clean.
- Meets OEM requirements of VO 502.00/505.00, BMW LL-04, Daimler Chrysler MB229.31 and Porsche.

TYPICAL SPECS

SAE Viscosity Grade	5W-40
Gravity, °API	33.2
Flash Point, °C(°F)	210 (410)
Pour Point, °C(°F)	-36(-39.4)
Viscosity:	
cSt @ 40°C.	88.5
cSt @ 100°C.	14.10
Viscosity Index	178
Color,	4.0
Sulfated Ash, Wt. %	0.08
Zinc, Wt. %	0.08
TBN	7.8
Product Number	
12/1 Quart	10700-E
12/1 Liter	10700-D1
6/4 Liter	10700-D3
1x18.95 Liters	10700-D5
1x200 Liters	10700-D7

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TOP 1 EVOLUTION SYNTHETIC GREASE

DESCRIPTION

Evolution Synthetic Grease is a premium quality, multi-purpose, high temperature, lithium complex grease with excellent low temperature properties. It is a unique formula of synthetic fluids providing excellent resistance to oxidation at elevated temperatures and exceptionally low start-up torque under extreme low temperature conditions.

Engineered to provide superior protection under severe operating conditions, Evolution Synthetic Grease contains EP/anti-wear, rust, and oxidation inhibitor additives to provide advanced protection for a wide range of applications and service conditions. Evolution Synthetic Grease is formulated to be an excellent high/low temperature multipurpose grease due to its ability to lubricate over a very wide temperature range in a large variety of automotive, trucking, agricultural, industrial, mining, and construction applications in severe service conditions. It meets the highest performance categories of ASTM D 4950 Automotive Grease Classification System, GC for wheel bearing service and LB for chassis service, and is NLGI certified GC-LB for dual-service.

FEATURES AND ADVANTAGES

- A premium quality, multi-purpose, high temperature, severe duty, lithium complex EP grease with excellent low temperature properties.
- May reduce operating temperature of equipment
- Excellent oxidation and corrosion resistance.
- Superior anti-wear protection.
- Excellent oil bleed characteristics.
- Exceptionally low start-up torque under low temperature conditions.
- Unique blend of synthetic oils in an optimized formulation that provides *energy and fuel savings*.
- Excellent high temperature and low temperature performance.

TYPICAL SPECS

NLGI Consistency Number	2
Thickener	Lithium Complex
Texture	Smooth, Adhesive
Color, Observed	Green
Worked 60 Penetration, D-217	265-295
Dropping Point, D-2265, °F (°C)	>500 (260)
Water Washout, D-1264, % loss	4.7 @ 175°F.
Rust Prevention, D-1743,	Pass
Oil Separation, D-1742, % loss	1.8
Four-Ball Wear, D-2266, mm	0.48
Timken OK Load, lbs	70
Four-Ball EP Weld Point, D-2596, kgf	315
Part Number	
Case Pack 24/1 Lbs	10700-G0
Drum 400 Lbs	10700-G07

VALUES SHOWN HERE ARE TYPICAL AND MAY VARY



TOP 1 OIL PRODUCTS COMPANY

Product Data Sheet

851 Burlway Road, Ste. 600; Burlingame, CA 94010 USA www.top1oil.com Rev. Aug. 2006

TOP 1 EVOLUTION FULLY SYNTHETIC DIESEL OIL

DESCRIPTION

EVOLUTION FULLY SYNTHETIC DIESEL OIL API CI-4 plus / SM motor oil is designed to meet the warranty requirements of most manufacturers of modern diesel engines with exhaust gas recirculation (EGR) and was specifically developed for diesel engines operating with After-treatment devices like DPF etc. This motor oil is a blend of synthetic base oils and specially selected additives designed to provide excellent performance in all recommended applications.

FEATURES AND ADVANTAGES

- High TBN/Alkaline Reserve - Effectively neutralizes corrosive acids to protect bearings and other vital engine surfaces.
- Minimizes ash deposits in combustion chamber and valve surfaces.
- High oxidation stability - Protects engine against sludge and varnish deposits.
- High alkaline reserve permits extending drain interval to maximum allowed by engine manufacturer.
- Meets the requirements of Mack EO-Npremium plus, Cat ECF-1, Cummins CES 20078.
- Also meets the requirements of ACEA E5, MB 228.3, MTU Type 2, Volvo VDS-2, MAN 3275.

TYPICAL SPECS

SAE Grade	5W30	5W-40
API Gravity	33.5	33.2
Viscosity		
cST @ 40°C	0.0	88.5
cST @ 100°C	11.5	14.10
CCS @ -30°C	6,000	2,345
Viscosity Index	155	178
Flash Point, °F	450	2.5
Pour Point, °F	-45	-39
Ash, Sulfated, wt%	1.0	0.8
Color, D-1500	2.5	2.5
Zinc, WT. %	0.12	0.08
TBN, D-2896	9.0	7.8
Product Number		
12 x 1 Liter	10700-HD1	10700-HD2
4 x 5 Liter	10700-HD4	

VALUES SHOWN HERE ARE TYPICAL AND MAY VARY



TOP 1 OIL PRODUCTS COMPANY

Product Data Sheet

851 Burlway Road, Ste. 600; Burlingame, CA 94010 USA www.top1oil.com Rev. Aug. 2006

TOP 1 EVOLUTION FULLY SYNTHETIC MOTORCYCLE OIL 15W50

DESCRIPTION

TOP EVOLUTION FULLY SYNTHETIC MOTORCYCLE OIL SAE 15W50 is a high performance oil designed to meet the latest motorcycle requirements. Specifically formulated to meet the demand of the small displacement, high rpm, fuel-efficient engines. These engines experience higher operating temperatures and require oil that offers maximum protection against both viscosity and thermal breakdown.

The oil is 100% synthetic oil blended with special additives that protects against high temperature oxidation, wear, and viscosity breakdown. It is fortified with detergent-dispersants and rust and corrosion inhibitors to keep engines exceptionally clean and free of sludge, varnish, and rust.

FEATURES AND ADVANTAGES

- Exceeds API Service Classification SL and is recommended for domestic and Japanese motorcycles engines - especially recommended for small, high rpm engines.
- Meets new JASO requirements of MA2 and MA.
- Meets and exceeds Motorcycle OEM requirements.
- Highly oxidation stable - protects engine from oil thickening, high temperature deposits.
- Shear stable viscosity index improver - protects against viscosity breakdown in severe service.
- Effective detergent-dispersants keeps engine parts clean.
- Anti-wear agents effectively protect highly loaded parts from wear.

TYPICAL SPECS

Product Designation	EVOLUTION
SAE Grade	15W50
API Gravity	33.6
Viscosity	
cSt @ 40°C	117
cSt @ 100°C	19
CCS, cP@ -20 °C	5000
Viscosity Index	160
Flash Point, COC, °F	430
Pour Point, COC, °F	-30
Ash, Sulfated, wt%	0.9
Color	2.5
TBN	6.1
Product Number	10700-MC

VALUES SHOWN HERE ARE TYPICAL AND MAY VARY



TOP 1 OIL PRODUCTS COMPANY

Product Data Sheet

851 Burlway Road, Ste. 600; Burlingame, CA 94010 USA www.top1oil.com Rev. Aug. 2006

TOP 1 EVOLUTION FULLY SYNTHETIC RACING OIL 10W60 SL

DESCRIPTION

TOP 1 EVOLUTION FULLY SYNTHETIC RACING OIL 10W60 SL is a high performance 100% fully synthetic racing oil designed to exceed the extreme demands of auto racing. Specifically formulated to meet the demands of the small displacement high RPM fuel efficient engines found in today's domestic and foreign automobiles. These engines experience higher operating temperatures and require a motor oil which offers maximum protection against both viscosity and thermal breakdown.

Top 1 Evolution 10W60 exceeds API Service Classification SL and is recommended for domestic and foreign high performance racing engines. Evolution is especially recommended for small, high RPM engines including those that are turbocharged.

FEATURES AND ADVANTAGES

- Highly oxidation stable - protects engine from oil thickening, high temperature sludge and varnish deposits
- Shear stable viscosity index improver-protects against viscosity breakdown in severe service.
- Effective detergent-dispersants keeps engine parts clean.
- Improved fuel economy means better gasoline mileage.
- High TBN/alkaline reserve effectively neutralizes corrosive acids formed by combustion to protect critical turbo bearings and other vital engine surfaces.
- Anti-wear agents effectively protect cam lobes and other highly loaded parts from wear.

TYPICAL SPECS

SAE Viscosity Grade	ASTM Test	10W-60
Gravity, °API	D-287	24.5
Flash Point, °F	D-92	430
Fire Point, °F	D-92	450
Pour Point, °F	D-97	-45
Viscosity:		
SUS @ 100°F	D-2161	728.5
SUS @ 210°F	D-2161	118.0
cSt @ 40°C.	D-445	24.5
cSt @ 100°C.	D-445	157.2
Viscosity Index	D-2270	189
Color	D-1500	2.0
Sulfated Ash, Wt. %	D-874	0.80
Zinc, Wt. %	X-ray	0.101
TBN	D-2896	6.2
Product Number		
12/1 Liter		10700-R



TOP 1 OIL PRODUCTS COMPANY

Product Data Sheet

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TOP 1 EVOLUTION FULLY SYNTHETIC MOTOR OIL SAE 0W40

DESCRIPTION

TOP 1 EVOLUTION FULLY SYNTHETIC MOTOR OIL SAE 0W40 is a high performance 100% fully synthetic motor oil which is designed to meet the latest car manufacturers warranty requirements. Specifically formulated to meet the demands of small displacement high RPM fuel efficient engines found in today's domestic and foreign automobiles. These engines experience higher operating temperatures and require a motor oil which offers maximum protection against both viscosity and thermal breakdown.

The oil is 100% full synthetic of the highest quality and special additives, which protects against high temperature oxidation, wear and viscosity breakdown. It meets the "Mid-SAPS" passenger car lubricant requirements as specified by various European OEMs and in line with the Euro 4 & 5 requirements. Exceeds API SM/CF, ACEA A3/B3/-04/B4-04.

FEATURES AND ADVANTAGES

- Meets the latest "Mid-SAPS" requirements.
- Shear stable viscosity index improvers protects against viscosity breakdown in severe service.
- Sulfated Ash of 0.08% with phosphorous requirements of 0.08%.
- Recommended for most engines meeting Euro 4 & Euro 5 requirements.
- Effective dispersants detergents keep engine parts clean.

TYPICAL SPECS

SAE Viscosity Grade	0W40
Gravity, °API	32.30
Flash Point, C°(F°)	204.4 (400)
Pour Point, C°(F°)	-36(-39.4)
Viscosity:	
cSt @ 40°C.	73.0
cSt @ 100°C.	13.0
Viscosity Index	180
Color,	2.0
Sulfated Ash, Wt. %	0.80
Zinc, Wt. %	0.08
TBN	7.9
Product Number	
12/1Liter	10700-X1
6/4 Liter	10700-X3
1x18.95 Liters	10700-X5
1x200 Liters	10700-X7

VALUES SHOWN HERE ARE TYPICAL AND MAY VARY



TOP 1 OIL PRODUCTS COMPANY

Product Data Sheet

851 Burlway Road, Ste. 600; Burlingame, CA 94010 USA www.top1oil.com Rev. Aug. 2006

TOP 1 SMO-8000 SERIES FULLY SYNTHETIC MOTOR OILS

DESCRIPTION

TOP 1 SMO-8000 SERIES FULLY SYNTHETIC MOTOR OILS provide excellent wear protection in two ways: First, due to the unique properties of SYNGEN 2000 synthetic base oils, the oil flows faster to critical lubrication points at start-up and begins protecting the engine sooner, compared to conventional mineral oils. Second, TOP 1 SMO-8000 series are formulated with advanced anti-wear additives that provide a protective layer on metal surfaces. This combination of synthetic base stocks and advanced anti-wear chemistry means reduced wear and longer engine life when compared to conventional mineral oils. TOP 1 SMO-8000 series exceeds the current highest standards for gasoline engines as defined by the American Petroleum Institute (API SL). TOP 1 SMO-8000 series is available in both SAE 5W-50 and SAE 15W-50 grades. **TOP 1 SMO-8000 series is formulated to provide protection and performance that is up to four times greater than conventional oils!**

FEATURES AND ADVANTAGES

- Provides the highest degree of protection for your vehicle
- Exceptional thermal stability provides for the best high temperature lubrication
- Improves fuel mileage
- Cleans engines and emissions systems
- Exceeds warranty requirements of cars, light trucks, and sports utility vehicles specifying an API SL motor oil
- Strong anti-wear protection
- Longer engine life

TYPICAL SPECS

GRADE, SAE	ASTM METHOD	5W50	15W50
Gravity, °API	D-287	30.6	29.21
Flash Point, °C(°F)	D-92	218(425)	221(430)
Fire Point, °C(°F)	D-92	243(470)	246(475)
Pour Point, °C(°F)	D-97	-52(-62)	-40(-40)
Viscosity:			
SUS @ 100°F	D-2161	612.7	609.4
SUS @ 210°F	D-2161	98.07	96.37
cSt @ 40°C	D-445	132.2	131.5
cSt @ 100°C	D-445	19.9	19.5
Viscosity Index	D-2270	173	169
Color	D-1500	2.5	2.5
Sulfated Ash, Wt. %	D-874	0.8	0.8
Zinc, Wt. %	X-RAY	0.10	0.10
TBN, Mg KOH/g	D-2896	6.2	6.2
Product Number			
12x1 Liter		10701-1	10702-1
4x6 Liter		10705-1	10706
1x18.95 Liter			10702-5
1x400 Liter		10701-7	10702-7

VALUES SHOWN HERE ARE TYPICAL AND MAY VARY



TOP 1 OIL PRODUCTS COMPANY

Product Data Sheet

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TOP 1 SYNTHETIC MOTOR OIL

DESCRIPTION

TOP 1 SYNTHETIC MOTOR OIL (SMO SERIES) are premium, world class synthetic motor oils designed to provide the highest degree of protection under extreme conditions in both gasoline and diesel applications. TOP 1 SMO series is formulated with the most stable synthetic components available in order to provide maximum thermal stability. TOP 1 SMO series contains a proprietary molybdenum organic package, which provides superior protection against the damaging effect of friction. The high viscosity index of TOP 1 SMO prevents viscosity breakdown at high temperatures and ensures fuel economy, oil economy, and effective protective films for all vital engine parts. TOP 1 SMO-HP exceeds the most severe service conditions as defined by the American Petroleum Institute and ACEA and is excellent for use in high revving engines in cars and light trucks.

FEATURES AND ADVANTAGES

- Strong anti-wear protection
- Excellent protection against thermal breakdown
- Extra protection against engine deposits
- Improves fuel mileage
- Lowers engine operating temperatures
- Keeps engines and emission systems clean
- Increases horsepower
- Longer engine life

TYPICAL SPECS

Product Designation	HP
SAE Grade	20W-50
Specific Gravity	28.1
Viscosity	
SUS @ 100°F	1250
SUS @ 210°F	96
cSt @ 40°C	218
cSt @ 100°C	20.08
Viscosity Index	149
Flash Point, COC, C° (F°)	258 (496)
Pour Point, COC, C° (F°)	-35(31)
Total Base Number, mg KOH/g	7.5
Ash, Sulfated, wt%	.78
Color	Green
Product Number	
24/1 Quart	10710
12/1 Liter	10711-1
6/4 Liter	10714
24/1 Liter	10710-1
1x18.95 Liters	10710-5
1x200 Liters	10710-7

VALUES SHOWN HERE ARE TYPICAL AND MAY VARY



TOP 1 OIL PRODUCTS COMPANY

Product Data Sheet

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TOP 1 SYNTHETIC MOTOR OIL (SMO-HP PLUS)

DESCRIPTION

TOP 1 SYNTHETIC MOTOR OIL (SMO-HP PLUS) is a world class synthetic motor oil designed to provide the highest degree of protection under extreme conditions. TOP 1 SMO-HP Plus is formulated with the most stable synthetic components available in order to withstand tremendous heat and provide maximum thermal stability. TOP 1 SMO-HP Plus contains a proprietary molybdenum organic package, which provides superior protection against the damaging effect of friction. TOP 1 SMO-HP Plus series exceeds the most severe service conditions (SL) as defined by the American Petroleum Institute.

FEATURES AND ADVANTAGES

- Strong anti-wear protection
- Excellent protection against thermal breakdown
- Extra protection against engine deposits
- Improves fuel mileage
- Lowers engine operating temperatures
- Keeps engines and emission systems clean
- Increases horsepower
- Longer engine life

TYPICAL SPECS

Product Designation	HP PLUS	HP PLUS
SAE Grade	10W40	10W30
Specific Gravity	31.50	32.00
Viscosity		
cSt @ 40°C	102.10	
cSt @ 100°C	15.10	11.10
Viscosity Index	155	155
Flash Point, COC, C° (F°)	221 (430)	221 (430)
Pour Point, COC, C° (F°)	-36 (-33)	-37 (-35)
Zinc, wt %	0.10	0.115
Color, D-1500	2.0	2.5
Product Number		
24/1 Liter	10719	10729
12/1 Liter	10719-1	

VALUES SHOWN HERE ARE TYPICAL AND MAY VARY



TOP 1 OIL PRODUCTS COMPANY

Product Data Sheet

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TOP 1 SYNTHETIC BLEND 80W-90 GEAR OIL

DESCRIPTION

TOP 1 SYNTHETIC BLEND 80W-90 GEAR OIL is a multi-purpose hypoid gear lubricant manufactured using SYNGEN 2000 base stocks and a carefully balanced additive package to provide maximum gear protection and long gear life. TOP 1 SYNTHETIC BLEND 80W90 GEAR OIL meets all the requirements of API Service Classification GL-5/ MT-1. TOP 1 SYNTHETIC BLEND 80W90 GEAR OIL is engineered for severe service; including extreme temperature and high load conditions.

FEATURES AND ADVANTAGES

- API GL-5/MT-1
- Meets Mack Specifications GO-F, GO-G, GO-H
- Meets Rockwell Specifications 0-76A, 0-76B and 0-76D
- Recommended for differentials and conventional transmissions in passenger cars and trucks where GL-5 fluids are specified.
- Protects hypoid gears from wear and scuffing
- Provides rust protection to gears
- Compatible with other automotive gear oils
- Non-foaming

TYPICAL SPECS

Product Designation	SYNTHETIC
SAE Grade	80W-90
Viscosity	
SUS @ 100°F	788
SUS @ 210°F	70
cSt @ 40°C	171.7
cSt @ 100°C	16.26
Viscosity Index	125
Flash Point, COC, C° (F°)	213 (415)
Pour Point, COC, C° (F°)	-32 (-25)
API Service Classification	GL-5/MT-1
Product Number	
12x1 Quart	10734
6x4 Liter	10736

VALUES SHOWN HERE ARE TYPICAL AND MAY VARY



TOP 1 OIL PRODUCTS COMPANY

Product Data Sheet

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TOP 1 SYNTHETIC LIFETIME AUTOMATIC TRANSMISSION AND POWER STEERING FLUID

DESCRIPTION

TOP 1 SYNTHETIC LIFETIME (ATF) AUTOMATIC TRANSMISSION and POWER STEERING FLUID is the latest high performance, multipurpose power transmission fluid engineered to meet pre-2006 GM and Ford specifications. It is developed for passenger cars and light trucks with automatic transmissions. It is blended with SYNGEN 2000 base stocks and additives that provide oxidation and thermal stability, friction control, load carrying ability, corrosion and wear protection. TOP 1 SYNTHETIC LIFETIME ATF is specially formulated to prevent shudder and practically eliminates transmission overhauls due to sludge, corrosion and wear. It is an excellent choice in any transmission where the manufacturer recommends a DEXRON and MERCON qualified product. It is also recommended for transmissions, power steering systems, and hydraulic systems requiring an Allison C4, Caterpillar TO-2 fluid, Dennison P-46 Piston Pump, or Vickers.

FEATURES AND ADVANTAGES

- Excellent seal compatibility
- High resistance to oxidation
- Minimizes varnish and sludge formation
- No corrosion or rusting of parts
- Excellent for use as a power steering fluid
- Quiet performance
- Exceptional thermal stability
- Optimum friction characteristics
- Retains low temperature fluidity and high temperature stability

TYPICAL SPECS

API Gravity	33.4
Viscosity	
cSt @ 40°C	34.3
cSt @ 100°C	7.1
Viscosity Index	176
Viscosity, Brookfield cP @ -40°C	17,000
Flash Point C°(F°)	202(396)
Pour Point C°(F°)	-48 (-54)
Color	Red
Part Number	
12/1 Quart	10751
5 Gal. Pail	10751-5
53 Gal. Drum	10751-7

VALUES SHOWN HERE ARE TYPICAL AND MAY VARY



TOP 1 OIL PRODUCTS COMPANY

Product Data Sheet

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TOP 1 MULTI-VEHICLE AUTOMATIC TRANSMISSION FLUID

DESCRIPTION

TOP 1 MULTI-VEHICLE AUTOMATIC TRANSMISSION FLUID (MV ATF) is a synthetic blend multi vehicle high performance automatic transmission fluid specially formulated to exceed the performance and protection requirements for most new transmissions. TOP 1 MV ATF is the one solution for multiple ATF requirements and continued use ensures smoother shifting and longer, cooler trouble-free transmission life. TOP 1 MV ATF meets the JASO 1A "shudder" test and can be used in all of the latest models from the major car manufacturers including Toyota, Nissan, Honda, Mitsubishi, Audi, Ford, and General Motors.

RECOMMENDED FOR

- Audi: TT, A3 G 052 025-A2
- Ford Mercon V
- General Motors D-III
- Honda Z-1
- Mitsubishi /Proton SP-II/III
- Nissan Matic J, Matic K
- Toyota: Most Models JWS 3309, Type WS, Type T, Type T-III, and Type T-IV

NOT FOR USE IN CVT TRANSMISSIONS

TYPICAL SPECS

Gravity, °API	31.9
Viscosity:	
cST @ 100°C	8.5
cSt @ -40°C	38.42
Viscosity Index	205
Flash Point, °C (°F)	190 (374)
Pour Point, °C (°F)	-48 (-54)
Color	Red
Product Number	
12x1 Liter	10756

VALUES SHOWN HERE ARE TYPICAL AND MAY VARY



TOP 1 OIL PRODUCTS COMPANY

Product Data Sheet

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TOP 1 SYNTHETIC DIESEL OIL (SDO)

DESCRIPTION

TOP 1 SYNTHETIC DIESEL OIL (SDO) is a world-class synthetic motor oil meeting the requirements of a wide range of U.S., European and Japanese diesel engines. TOP 1 SDO's unique blend of performance additives, including synthetic base oils provides 2 times the detergency and acid neutralizing ability of conventional petroleum oils. The result is maximum engine cleanliness, extended drain intervals and longer engine life. TOP 1 SDO delivers value through reduced operating costs, world class performance and credentials, and long oil service life. **Exceeds latest API CI-4, CH-4/, ACEA categories; E5, E3, JASO DH-1 and Global Service Category: DHD-1.**

DIESEL ENGINE MANUFACTURERS' REQUIREMENTS

Officially approved product for Caterpillar; ECF-1, Cummins; CES 20078, 20077, 20076, 20072, MTU; category 1 & 2, EMA (Engine Manufacturers Association); LRG-1, MAN; 271, 3275, DDC; types 1 & 2, Mack; EO-N Premium Plus 03, Premium Plus, Plus, EO-M, Mercedes Benz; 228.1, 228.3, Volvo; VDS-3, VDS-2, VDS, Detroit Diesel.

FEATURES AND ADVANTAGES

- Minimizes carbon, varnish and sludge deposits
- Protects against corrosive wear of rings and hydraulic valve lifters
- Protects against wear of highly stressed parts such as camshafts, valve lifters and rocker arms
- Neutralizes acidic combustion by-products
- Resists rusting
- An officially approved lubricant for Mercedes MB-228.3, Volvo VDS3, and Cummins CES20078 specifications

TYPICAL SPECS

Product Designation	SDO
SAE Grade	15W-40
API Gravity	29.1
Viscosity	
SUS @ 100° F	503
SUS @ 210° F	76
cSt @ 40°C	116
cSt @ 100°C	15.6
Viscosity Index	140
Flash Point, C° (F°)	238 (460)
Pour Point, C° (F°)	-39 (-38)
Total Base Number	11.8
Ash, Sulfated, wt%	1.37
Phosphorus, wt %	0.127
Zinc, wt %	0.137
Foam Test	Pass

Product Number

24/1 Quart	10760
12/1 Liter	10761
12/1 Liter (Silver)	10761-K
4/5 Liter	10764-1
1x18.95 Liters	10764-5, 10760-5

VALUES SHOWN HERE ARE TYPICAL AND MAY VARY



TOP 1 OIL PRODUCTS COMPANY

Product Data Sheet

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TOP 1 TRANSPORT –C 15W-40

DESCRIPTION

Top 1 TRANSPORT - C 15W-40 Synthetic Blend Heavy Duty Motor Oil (HDMO) is a multi-Viscosity high quality engine oil for heavy-duty diesel engines. Top 1 Transport - C 15W-40 is manufactured with the latest additive technologies to provide superior performance in diesel engine service. Designed to keep high-output, low emission engine designs clean and operating efficiently, these products exceed the requirements for heavy-duty truck, agricultural, and construction equipment needing API CI-4 Service Category Performance.

FEATURES AND ADVANTAGES

- Excellent detergency control of piston ring deposits in highly stressed engines.
- Excellent fuel soot dispersion and oxidation resistance protect against excessive oil viscosity increase.
- Superior wear protection in all engine designs.
- Excellent high-temperature high-shear rate viscosity without sacrificing low-temperature fluidity.
- Excellent TBN properties prevent corrosive wear.
- Proven oil consumption control in heavy-duty service.
- Excellent water tolerance. Meet Fleetguard and GMC filterability requirements.
- Excellent shear stability assures stay-in-grade performance.

TYPICAL SPECS

SAE Grade

Gravity, ASTM D 4052,
Pounds Per Gallon
Flash Point, ASTM D 92 (COC), °F (°C)
Viscosity, ASTM D 445, cSt at 100°C
ASTM D 445, cSt at 40°C
Viscosity Index, ASTM D 2270
HTHS Rate Vis at 150°C & 106 sec-1, cP
CCS Vis, ASTM D 5293, cP at °C
MRV Vis, ASTM D 4684, cP at °C
MRV Yield Stress, ASTM D 4684, Pa at °C
Pour Point, ASTM D 97, °F (°C)
Sulfated Ash, ASTM D 874, %m
TBN (Total Base No.), ASTM D 2896
NOACK volatility, ASTM D 5800, % Loss
Color, ASTM D 1500 (may vary by location)

15W-40

°API 29.1
7.34
450 (232)
15.7
119
140
4.2
6200 at -20°C
22,500 at -25°C
<35 at -25°C
-11 (-24)
1.2
10
12
3.5

Part Number

1x18.95 Liters	10765-C	10765-W
1x200 Liters	10767-L	10767-R
1x208 Liters	10767-C	



TOP 1 OIL PRODUCTS COMPANY

Product Data Sheet

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TOP 1 SYNTHETIC HEAVY DUTY DIESEL OIL 5W30

DESCRIPTION

TOP 1 SYNTHETIC HEAVY DUTY DIESEL OIL 5W30 is manufactured using SYNGEN 2000 synthetic base stocks and a premium additive package which utilizes highly dispersed viscosity index improvers that promotes stable viscosities and soot dispersion between oil drains. It has excellent shear stability and is designed to not shear down to a lower viscosity under the most severe driving conditions. Thus, engines, especially those with common rail direct injection systems, are well protected during maximum drain intervals. Further, TOP 1 SYNTHETIC HEAVY DUTY DIESEL OIL 5W30 maintains excellent deposit control, retards the formation of sludge, and varnish associated with high and low temperature operation, thus keeping engines clean. TOP SYTHETIC HEAVY DUTY DIESEL OIL 5W30 exceeds the performance requirements of API CJ-4/SM.

FEATURES AND ADVANTAGES

- Longer engine life
- Excellent protection against wear
- Reduces oil consumption
- Extended drain service
- Longer filter life
- Minimum combustion chamber and valve face deposits
- Superior engine cleanliness

TYPICAL SPECS

GRADE, SAE	5W30
Gravity, °API	32.0
Flash Point, °C (°F)	232 (450)
Pour Point, °C (°F)	-36 (-33)
Viscosity:	
cSt @ 40°C.	62.8
cSt @ 100°C.	11.0
Viscosity Index	159
Color	4.0
Sulfated Ash, Wt. %	1.26
Zinc, Wt. %	11.8
Product Number	
12x1 Liter	10769-1
12x1 Liter (Sliver Bottle)	10769-1K
4x5 Liter	10769-3

VALUES SHOWN HERE ARE TYPICAL AND MAY VARY



TOP 1 OIL PRODUCTS COMPANY

Product Data Sheet

851 Burlway Road, Ste. 600; Burlingame, CA 94010 USA www.top1oil.com Rev. Aug. 2006

TOP 1 SUPER DIESEL 10W30

DESCRIPTION

TOP SUPER DIESEL 10W30, CI-4 / SL is a blend of premium base oils and selected additives; designed to give excellent performance in all recommended applications. This engine oil contains an effective detergent-dispersant which keeps the EGR engines highly clean, It is additionally fortified with oxidation-corrosion inhibitors, extreme pressure additives, foam inhibitors to protect vital engine parts from scuffing and to protect bearings from corrosion.

FEATURES AND ADVANTAGES

- Recommended for all turbo-charged EGR diesel engines where manufacturers specify **CI-4 / CH-4 / CG-4 / CF-4 / CF / SL**, & European ACEA and OEM claims.
- It also meets **MB 228.3, Volvo VDS-2 / VDS-3, Cummins CES 20078, Mack EON Premium plus, ACEA E7-04 / E3 / E5, MAN 3275, GLOBAL DHD-1** etc specification
- Meets and exceeds today's demanding energy conservation requirements.
- **High TBN / Alkaline Reserve** for EGR engines.
- Effectively neutralizes corrosive acids to protect bearings and other vital engine surfaces.
- Premium base oils give excellent low temperature performance and extra long life.

TYPICAL SPECS

SAE Grade	10W30
API Gravity	31.5
Viscosity	
cSt @ 100°C	11.5
CCS @ -25 °C	6000
Viscosity Index	150
Flash Point °F	450
Pour Point °F	-33
Color	Bright & Clear
Ash, Sulfated, WT %	1.2
Zinc, WT %	0.13
TBN	> 9.5
Product Number	
12/1 Liter	10769-T1
4/5 Liter	10769-T3

VALUES SHOWN HERE ARE TYPICAL AND MAY VARY



TOP 1 OIL PRODUCTS COMPANY

Product Data Sheet

851 Burlway Road, Ste. 600; Burlingame, CA 94010 USA www.top1oil.com Rev. Aug. 2006

TOP 1 SYNTHETIC PRO RACING (2T) MOTORCYCLE OIL

DESCRIPTION

TOP 1 SYNTHETIC PRO RACING 2T MOTORCYCLE OIL is a high quality synthetic two-stroke oil formulated to provide superior protection for modern water and air-cooled two-stroke motorcycle engines. This unique blend is fortified by polyisobutylene synthetic base fluid to produce a superior performance oil with the added benefit of reduced smoke. TOP 1 SYNTHETIC PRO RACING 2T MOTORCYCLE OIL is also engineered to provide excellent lubrication and deposit control in a wide range applications. TOP 1 SYNTHETIC PRO RACING 2T motor oil is recommended as a premium lubricant for use in two-stroke engines where the latest TCW3 or earlier general purpose lubricants are recommended. **EXCEEDS JASO FC and API TC specifications and EXCEEDS THE REQUIREMENTS OF ALL INTERNATIONAL SPECIFICATIONS.**

FEATURES AND ADVANTAGES

- Superior engine efficiency and power
- Exceptionally clean engines with minimum combustion chamber deposits, minimum port clogging, clean ring grooves and free rings
- Long spark plug life
- Extended engine life
- Excellent rust protection
- Easy mixing and stable mixtures with gasoline
- Reduced maintenance costs

TYPICAL SPECS

Specific Gravity	0.869
Viscosity	
cSt @ 40°C	61.6
cSt @ 100°C	9.3
Flash Point C° (F°)	90 (194)
Pour Point C° (F°)	-30 (-22)
Product Number	10779 12 x 1 Liter

VALUES SHOWN HERE ARE TYPICAL AND MAY VARY



TOP 1 OIL PRODUCTS COMPANY

Product Data Sheet

851 Burlway Road, Ste. 600; Burlingame, CA 94010 USA www.top1oil.com Rev. Aug. 2006

TOP 1 SYNTHETIC MOTOR OIL FOR MOTORCYCLES (SMO-MC)

DESCRIPTION

TOP 1 SYNTHETIC MOTOR OIL FOR MOTORCYCLES (SMO-MC) is a synthetic motor oil designed to outperform all 4-stroke (4T) motorcycle oils available on the market today. Formulated with SYNGEN 2000 base oil and an advanced, dedicated 4T additive package, TOP 1 SMO-MC is designed to meet and exceed the warranty requirements for all 4-stroke motorcycle engines.

FEATURES AND ADVANTAGES

- Superior engine protection and lower wear
- Reduced oil consumption due to shear stable polymer
- High oxidation stability-protects engine oil from oil thickening, hi-temperature sludge, and varnish deposits
- Low ash minimizes "Spark-Plug" pre-ignition problems
- Excellent rust protection
- Excellent heat dissipation keeps engine running cooler
- Outperforms all conventional premium oils
- Meets the new JASO MA2, MA requirements

TYPICAL SPECS

GRADE, SAE	20W50
Gravity, °API	30.2
Flash Point, °C (°F)	235 (455)
Pour Point, °C (°F)	-20.6 (-5.0)
Viscosity:	
SUS @ 100°F	1250
SUS @ 210°F	100
cSt @ 40°C.	280
cSt @ 100°C.	21.06
Viscosity Index	149
Color	2.0
Sulfated Ash, Wt. %	0.70
Zinc, Wt. %	0.11
Product Number	
24x1 Quart	10780
24x800 cc	10782

VALUES SHOWN HERE ARE TYPICAL AND MAY VARY



TOP 1 OIL PRODUCTS COMPANY

Product Data Sheet

851 Burlway Road, Ste. 600; Burlingame, CA 94010 USA www.top1oil.com Rev. Aug. 2006

TOP 1 SYNTHETIC PRO RACING (4T) MOTORCYCLE OIL

DESCRIPTION

TOP 1 SYNTHETIC PRO RACING (4T) MOTORCYCLE OIL is a synthetic motor oil designed to outperform all four-stroke motorcycle oils available on the market today. Formulated with Syngen 2000 base oil and an advanced, dedicated four-stroke additive package, TOP 1 PRO RACING Motorcycle Oil is designed to meet and exceed the warranty requirements for all four-stroke motorcycle engines.

FEATURES AND ADVANTAGES

- Superior engine protection and lower wear.
- Reduced oil consumption due to shear stable polymer.
- High oxidation stability - protects engine oil from oil thickening, hi-temperature sludge, and varnish deposits.
- Low ash minimizes "Spark-Plug" pre-ignition problems.
- Excellent rust protection.
- Excellent heat dissipation keeps engine running cooler.
- Outperforms all conventional premium oils.
- Meets the "**new**" **JASO MA2**, MA requirements.

TYPICAL SPECS

GRADE, SAE	ASTM METHOD	20W50
Gravity, °API	D287	30.2
Flash Point, °F (°C)	D-92	455°F (235°C)
Pour Point, °F (°C)	D-97	-5°F (-20.6°C)
Viscosity:		
SUS @ 100°F.	D-2161	1250
SUS @ 210°F.	D-2161	100
cSt @ 40°C.	D-445	280
cSt @ 100°C.	D-445	21.06
Viscosity Index	D-2270	149
Color	D-1500	2.0
Sulfated Ash, Wt. %	D-874	0.70
Zinc, Wt. %	X-RAY	0.11
JASO Approval		MA/MA2
Product Number		10789

VALUES SHOWN HERE ARE TYPICAL AND MAY VARY



TOP 1 OIL PRODUCTS COMPANY

Product Data Sheet

851 Burlway Road, Ste. 600; Burlingame, CA 94010 USA www.top1oil.com Rev. Aug. 2006

TOP 1 SYNTHETIC BLEND MOTORCYCLE OIL 7000

DESCRIPTION

TOP 1 SYNTHETIC BLEND MOTORCYCLE OIL 7000 is a high performance 4T product designed to meet the modern requirements of 4 Stroke motorcycle engines. This motorcycle oil is a blend of SYNGEN 2000 base stocks and a dedicated 4T additive package with a “shear stable” polymer designed to provide excellent performance in all recommended applications and is particularly well-suited for wide temperatures encountered.

FEATURES AND ADVANTAGES

- Superior engine protection and lower wear.
- Reduced oil consumption due to shear stable polymer.
- Low ash minimizes “spark plug” pre-ignition problems.
- Excellent rust protection.
- Quick pick-up.
- Excellent heat dissipation keeps engines running cooler.
- Prevents clutch slippage.
- Excellent protection against thermal breakdown.
- Excellent protection against engine deposits.
- Exceeds warranty requirements of all major motorcycle manufacturers.
- Meets the “new” JASO MA2, MA requirements.

TYPICAL SPECS

GRADE, SAE	ASTM METHOD	10W40
Gravity, °API	D287	32.7
Flash Point, °F	D-92	445
Fire Point, °F	D-92	470
Pour Point, °F	D-97	-15
Viscosity:		
SUS @ 100°F	D-2161	720
SUS @ 210°F	D-2161	76
cSt @ 40°C	D-445	154
cSt @ 100°C	D-445	15.45
Viscosity Index	D-2270	159
Color	D-1500	2.0
Sulfated Ash, Wt. %	D-874	0.70
Zinc, Wt. %	X-RAY	0.11
JASO APPROVAL		MA/MA2
Product Number		
12/1 Liter		10789-2

VALUES SHOWN HERE ARE TYPICAL AND MAY VARY

851 Burlway Road, Ste. 600, Burlingame, CA 94010 USA www.top1oil.com Rev. Nov. 2008

TOP 1 ACTION PLUS SYNTHETIC BLEND SAE 10W40

DESCRIPTION

TOP 1 ACTION PLUS SYNTHETIC BLEND MOTOR OIL SAE 10W40 is an advanced premium quality 4-stroke engine oil, specifically formulated for the needs of high performance 4T motorcycles. TOP 1 ACTION PLUS is formulated using our world class SYNGEN 2000 base oil and fortified with our proprietary magnesium high performance additive package. The Action Plus additive package was specifically engineered for tight tolerances and high temperatures found in modern motorcycles. ACTION Plus specifically prevents the wear of critical engine parts while preventing deposits and oil oxidation.

Exceeds API SG and JASO MA2 specifications.

Meets or exceeds the motorcycle manufacturer specifications: KTM, Aprilla, BMW, Harley Davidson, Honda, Yamaha, Suzuki, and Kawasaki motorcycles that call for a 10W40 oil.

FEATURES AND ADVANTAGES

- High Shear Stability.
- Engineered for High Temperature Engines
- Minimum Oil Consumption.
- Prevents Wear of Critical Parts.
- Powerful Detergent Action for Engine Cleanliness
- Superior Oxidation Resistance

TYPICAL SPECS

SAE Viscosity Grade	10W40
Gravity, °API	
Flash Point, °C	194
Pour Point, °C	
Viscosity:	
cSt @ 100°C.	15.99
Viscosity Index	162
Color,	
Sulfated Ash, Wt. %	.76
Zinc, Wt. %	.113
TBN	6.9
Product Number	
12/800cc	10796-1
12/ 1 LITER	10796

VALUES SHOWN HERE ARE TYPICAL AND MAY VARY



TOP 1 OIL PRODUCTS COMPANY

Product Data Sheet

851 Burlway Road, Ste. 600; Burlingame, CA 94010 USA www.top1oil.com Rev. Aug. 2006

TOP 1 ACTION MATIC SYNTHETIC BLEND SAE 20W40

DESCRIPTION

TOP 1 ACTION MATIC SYNTHETIC BLEND MOTOR OIL SAE 20W40 is an advanced premium quality 4-stroke engine oil, specifically formulated for modern automatic motorcycle engines. Fortified with our proprietary additive chemistry, this product imparts additional protection against high temperature operation. Our tri-moly technology will reduce the coefficient of friction of the oil and offers superior resistance to oxidation. Continued use of this product will ensure maximum power and protection.

Action Matic uses the highest quality base oils to lengthen the service life of the engine and permit trouble-free application during any season. Made specifically for the demanding wear imparted on today's modern scooters. It meets or exceeds the specifications for all automatic motorcycles (Specified only for Dry Clutch Engines) including: Honda, Yamaha, Suzuki, Kawasaki, Vespa, Kymco.

FEATURES AND ADVANTAGES

- High Shear Stability
- Minimum Oil Consumption
- Easy Starting and Smooth Riding
- Powerful Detergent Action for Engine Cleanliness
- Superior Oxidation Resistance

TYPICAL SPECS

SAE Viscosity Grade	20W-40
Gravity, °API	0.8628
Flash Point, °C(°F)	224 (435)
Pour Point, °C(°F)	-20(-4)
Viscosity:	
cSt @ 100°C.	15.55
Viscosity Index	164
Color, D-1500	5.0
Sulfated Ash, Wt. %	0.75
Zinc, Wt. %	0.125
TBN	5.53
Product Number	
12/800cc	10799

VALUES SHOWN HERE ARE TYPICAL AND MAY VARY

TOP 1 ACTION SYNTHETIC BLEND SAE 20W50

DESCRIPTION

TOP 1 ACTION SYNTHETIC BLEND MOTOR OIL SAE 20W50 is a premium quality 4-stroke engine oil, engineered to protect your motorcycle from build-up of deposits. TOP 1 ACTION 20W50 is formulated using our world class SYNGEN 2000 base oil and fortified with our proprietary additive package. The Action additive package is engineered to prevent wear imparted on an engine caused by daily driving whether in a congested city or on open country road.

Exceeds API SG and JASO MA2 specifications

Meets or exceeds the motorcycle manufacturer specifications: KTM, Aprilla, BMW, Harley Davidson, Honda, Yamaha, Suzuki, and Kawasaki motorcycles that call for a 20W50 oil.

FEATURES AND ADVANTAGES

- Minimum Oil Consumption.
- Engineered for Severe Riding Conditions.
- Prevents Wear of Critical Parts.
- Powerful Detergent Action for Engine Cleanliness
- Superior Oxidation Resistance
- Prevents deposits which cause power loss

TYPICAL SPECS

SAE Viscosity Grade	SAE 20W50
Gravity, °API	
Flash Point, °C	174
Pour Point, °C(°F)	
Viscosity:	
cSt @ 100°C.	21.06
Viscosity Index	152
Color,	
Sulfated Ash, Wt. %	.7
Zinc, Wt. %	.11
TBN	6
Product Number	
12/800cc	10782
12/ 1 QT	10780

VALUES SHOWN HERE ARE TYPICAL AND MAY VARY



TOP 1 OIL PRODUCTS COMPANY

Product Data Sheet

851 Burlway Road, Ste. 600; Burlingame, CA 94010 USA www.top1oil.com Rev. Aug. 2006

TOP 1 ZENZATION SYNTHETIC MOTOR OIL

DESCRIPTION

TOP 1 ZENZATION SYNTHETIC MOTOR OIL is a premium quality synthetic motor oil formulated with SYNGEN 2000 base stocks, a shear stable viscosity index improver, and contains detergent, dispersant, wear control, antioxidant, corrosion inhibitor, and foam suppressant additives. TOP 1 ZENZATION 10W40 provides optimum fuel economy and durability performance and is excellent for use in high revving engines in small cars and light trucks. TOP 1 ZENZATION API SM SAE 10W40 provides ultimate engine protection that exceeds USA and European industry standards like API SM and ACEA performance.

FEATURES AND ADVANTAGES

- Strong anti-wear protection
- Excellent protection against thermal breakdown
- Extra protection against viscosity breakdown
- Improves fuel mileage
- Lowers engine operating temperatures
- Keeps engines and emission systems clean
- Increases horsepower
- Protects against high temperature deposits that can harm the engine
- Longer engine life

TYPICAL SPECS

Product Designation	ZENZATION
SAE Grade	10W40
API Gravity	30.4
Viscosity	
SUS @ 100°F	828
SUS @ 210°F	78
cSt @ 40°C	104
cSt @ 100°C	14.8
Viscosity Index	149
Flash Point, COC, C° (F°)	234 (453)
Pour Point, COC, C° (F°)	-34(-29)
Total Base Number, mg KOH/g	7.4
Ash, Sulfated, wt%	.78
Color	Amber
Product Number	
12/1 Liter	10820
6/4 Liter	10824
12/800 cc	10822
1x18.95 Liters	10820-5
1x200 Liters	10822-7 10820-7

VALUES SHOWN HERE ARE TYPICAL AND MAY VARY