



## Technical Product Information

# TURBO PLUS HP MOTOR OIL

PREMIUM MOTOR OIL FOR HIGH PERFORMANCE GASOLINE ENGINES - ILSAC GF-4/ API SM

**Product Description:** TURBO PLUS HP MOTOR OIL is a High Performance Oil designed to meet the latest car manufacturers warranty requirements. 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. Specific viscosity grades meet all the requirements specified in the International Lubricant Standardization and Approval Committee (ILSAC) specification GF-4. The oil is a synthetic blend of the highest quality base oils and special additives which 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. Friction modifiers are added to ensure reduced friction between moving parts. The resultant improved fuel economy meets the requirements of the ASTM Sequence VI B Fuel Economy Specification defined by ILSAC GF-4 for the 0W/5W/10W-30 grades.

### Features:

- Grade 0W/5W/10W-30 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 gasoline mileage.
- High TBN/alkaline reserve effectively neutralizes combustion formed corrosive acids to protect critical turbo bearings and other vital engine surfaces.
- Antiwear agents effectively protect cam lobes and other highly loaded parts from water.

### Typical Uses:

- TURBO PLUS HP MOTOR OIL exceeds API Service Classification SM and ILSAC GF-4 and is recommended for domestic and foreign high performance engines - especially recommended for small, high RPM engines including those that are turbo-charged.
- Recommended for passenger cars, light duty pickups, motorcycles and other gasoline engines in mobile and stationary service.
- Appropriate viscosity grades meet the warranty requirements of Chrysler specification ( MS-6395N), Ford Motor Co. specification WSS-M2C930 /929A, and General Motors specification GM 6094-M , ACEA A 1-02.

### Typical Specifications:

SAE VISCOSITY GRADE	ASTM TEST	0W-30	5W-20	5W-30	10W-30
Gravity, °API	D-287	35.1	33.9	34.3	32.5
Flash Point, °F.	D-92	410	400	424	432
Pour Point, °F.	D-97	-45	-44	-39	-15
Viscosity:					
cSt. @ 40°C.	D-445	56.16	47.6	64.7	68.3
cSt. @ 100°C.	D-445	10.3	8.3	11.0	10.4
CCS @ -35°C.	D-5293	4788	4662	3200	5276
Viscosity Index	D-2270	174	151	169	146
Color,	D-1500	3.0	3.0	3.0	3.0
Sulfated Ash, Wt.%	D-874	0.80	0.80	0.80	0.80
Zinc, Wt.%		0.08	0.08	0.08	0.08
TBN	D-2896	6.5	6.5	6.5	6.5

VALUES SHOWN HERE ARE TYPICAL AND MAY VARY