



PREMIUM MOTOR OIL

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WARCO Premium Motor Oil provides superb performance for today's gasoline powered cars, light trucks and vans. They are formulated to provide clean engines and excellent control of sludge and other engine deposits that form because of high engine temperatures and combustion exhaust. Selected anti-wear additives are used to reduce wear and extend life.

WARCO Premium Motor Oils meet the requirements of API Service Category SN. WARCO Premium 5W-20, 5W-30, and 10W-30 Motor Oils meet auto manufacturers current performance requirements as defined by API GF-5. WARCO Premium Motor Oils are backward compatible with all earlier API service categories and have been field tested to be comparable to the specification requirements for MIL-L-46152E, Ford M2C153h, GM-6048 M, 6049M, Detroit Diesel, and other light duty diesel engines.

WARCO Premium Motor Oils are designed for today's high-temperature, high revving performance engines and are suitable for use where API SN motor oil is recommended.

Benefits and Applications

- API Service Classification SN, SM, SL, SJ
- API GF-5 Service Certification (SAE Grades 5W-20, 5W-30 and 10W-30)
- Resists breakdown in the most severe engine environments
- Fights formation of sludge and varnish deposits that reduce engine life
- Provides excellent protection to critical turbo unit components
- Excellent wear, corrosion, and rust protection
- Resist oil thickening by providing advanced oxidation control
- Helps reduce oil consumption by fighting volatility and oil evaporation



Typical Characteristics - Premium Conventional Motor Oil

SAE GRADE		5W-20	5W-30	5W-40	10W-30	10W-40	20W-50
API SERVICE		SN/GF-5	SN/GF-5	SN	SN/GF-5	SN	SN
API Gravity	ASTM D287	32.5	32.5	35.0	31.6	30.9	29.7
Flash Point, COC °C/°F	ASTM D92	202/395.6	210/410	205/401	206/402.8	206/402.8	206/402.8
Pour Point, °C/°F	ASTM D97	-48/-54.4	-45/-49	-38/-36.4	-40/-40	-40/-40	-30/-22
Viscosity @ 40°C, cSt	ASTM D445	50.2	64.6	84.0	70.0	110.0	156.9
Viscosity @ 100°C, cSt	ASTM D445	8.7	10.8	15.0	10.7	15.9	18.6
Viscosity Index	ASTM D2270	151	159	145	138	154	133
CCS, mPa-sec °C max	ASTM D5293	6600 @ -30	6600 @ -30	6200 @ -30	7000 @ -25	7000 @ -25	9500 @ -15
Phosphorus, Wt% max	ASTM D4951	0.08	0.08	0.08	0.08	0.08	0.08
Total Base No. TBN	ASTM D2896	7.9	7.9	7.9	7.9	7.9	7.9

Test Method ASTM - Typical test data are average values only. Minor variations, which do not affect performance, may occur.

HANDLING AND SAFETY INFORMATION - Refer to WARCO (MSDS) Material Safety Data Sheets for proper handling and safety information. Use the same care and handling as for any petroleum product. Nothing herein shall be deemed to constitute a warranty, express or implied, that said information or data are correct or that the products described are merchantable or fit for a particular purpose, or that said information, data or products can be used without infringing patents of third parties.