



FULL SYNTHETIC

With Enhanced "HyperLubrication Technology"
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WARCO Full Synthetic Motor Oils are premium multi-grade motor oils designed for maximum engine protection even under the toughest all weather driving conditions. WARCO Full Synthetic Motor Oils outperform conventional motor oils and protect your engine at start-up and against performance robbing sludge and varnish deposits to help improve fuel economy.

WARCO Full Synthetic Motor Oils are fully licensed to meet or exceed the latest American Petroleum Institute SN Service Classification for use in passenger car, van, sport utility vehicle, light duty truck and other mobile and stationary engines. WARCO Full Synthetic 5W-20, 5W-30 and 10W-30 are also Resource Conserving and exceed car manufacturers current performance requirements as defined by API GF-5.

WARCO Full Synthetic Motor Oils are backwards compatible with all earlier API categories and have been field tested to be comparable to American, European and Japanese manufacturers' requirements for ACEA A1/B1 & A5/B5, Ford WSS-M2C930A and WSS-M2C945A (5W20), and WSS-M2C929A and WSS-M2C946A (5W-30); Chrysler MS 6395, and GM 6094M (now obsolete).

**HyperLubrication Synthetic Technology is the science of reducing friction between moving parts. HyperLubrication Synthetic Oil is thinner and synthetic molecules are much more consistent in size and shape, therefore they are better able to withstand today's extreme engine temperatures. Synthetic Technology has been shown to produce less resistance (friction) in engines and to offer more horsepower and overall efficiency for your engine – your engine will perform at the same level as before, but with less wear and using slightly less gas.*

Benefits and Applications

- API Service Classification SN, SM, SL, SJ
- API GF-5 Service Certification (SAE Grades 0W-20, 0W-30, 5W-20, 5W-30 and 10W-30)
- Outperforms conventional oil and reduces friction and wear at start-up
- Full synthetic motor oil helps to improve fuel economy
- Maximum wear, corrosion, and rust protection
- Superior resistance to sludge and varnish deposit formation
- Advanced wear protection, engine cleanliness, and lower oil consumption at oil temperatures up to 400°F



Typical Characteristics - Full Synthetic

SAE GRADE		0W-20	0W-30	0W-40	5W-20	5W-30	5W-40	10W-30
API SERVICE		SN/GF-5	SN/GF-5	SN	SN/GF-5	SN/GF-5	SN	SN/GF-5
API Gravity	ASTM D287	35.8	35.6	35.0	35.0	34.9	35.0	33.8
Flash Point, COC °C/°F	ASTM D92	210/410	198/388	201/394	208/406	204/399	205/401	204/399
Pour Point, °C/°F	ASTM D97	-51/-59.8	-50/-58	-48/-54.4	-48/-54.4	-48/-54.4	-38/-36.4	-42/-43.6
Viscosity @ 40°C, cSt	ASTM D445	46.3	60.5	86.2	48.7	62.7	84.0	67.3
Viscosity @ 100°C, cSt	ASTM D445	8.7	10.9	15.1	8.6	10.8	15.0	10.5
Viscosity Index	ASTM D2270	169	175	185	157	164	145	144
CCS, mPa-sec, @ °C max	ASTM D5293	6200 @ -35	6200 @ -35	6200 @ -35	6200 @ -30	6200 @ -30	6200 @ -30	7000 @ -25
Phosphorus, wt% max	ASTM D4951	0.08	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	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.