



Heavy Duty SAE-50 Motor Oil

SAMS1 SAE-50 Heavy Duty Motor Oil is a superior quality mono-grade motor oil designed for maximum engine protection even under the toughest driving conditions. It protects your engine against performance robbing sludge and varnish deposits. It is recommended for naturally aspirated and turbo-charged passenger car, truck, and other mobile and stationary engines including off highway engines in mining construction and farming service.

SAMS1 SAE-50 Heavy Duty Motor Oil is fully licensed to meet or exceed American Petroleum Institute (API) CF-2/SL service classifications and is backwards compatible with all earlier API classifications. SAMS1 SAE-50 Heavy Duty Motor Oil has been field tested to be comparable to American, European and Japanese manufacturers' performance standards for diesel engines manufacturers requiring a premium CF-2/SL engine oil.

Benefits and Applications

- API CF-2, CF, CE, CD-II, CD, and SL, SJ Service Classifications
- Suitable for off-road mining, construction, and farming service engines
- Designed with premium base stocks for added thermal breakdown resistance
- Excellent wear, corrosion, and rust protection
- Superior resistance to oxidation, sludge and varnish deposit formation
- Advanced detergent system maintains engine cleanliness and soot control



Typical Characteristics - Heavy Duty SAE 50

SAE GRADE		50
API SERVICE		CF-2/SL
API Gravity	ASTM D287	32.5
Flash Point, COC °C/°F	ASTM D92	210/410
Pour Point, °C/°F	ASTM D97	-45/-49
Viscosity @ 40°C, cSt	ASTM D445	64.6
Viscosity @ 100°C, cSt	ASTM D445	10.8
Viscosity Index	ASTM D2270	159
CCS, mPa-sec, @ °C max	ASTM D5293	6600 @ -30
Phosphorus, wt% max	ASTM D4951	0.08
Total Base No. TBN	ASTM D2896	7.9

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

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HANDLING AND SAFETY INFORMATION - Refer to SAMS1 (SDS) 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.