



DESCRIPTION

XM-99 is a high performance 4T oil designed to meet the latest motorcycle manufacturer warranty requirements. Specifically formulated to meet the demands of the small displacement high RPM fuel efficient engines found in today's domestic and foreign motorcycles. These engines experience higher operating temperatures and require an oil which performs maximum protection against both viscosity and thermal breakdown.

XM-99 is a fully synthetic motor oil using Ester and Top 1's proprietary MO3 technology which protects against high temperature oxidation, wear, and viscosity breakdown. It is fortified with detergent-dispersants, rust, corrosion inhibitors and friction modifiers to keep engines exceptionally clean and free of sludge, varnish and rust.

XM-99 meets the performance of **API SN** and **JASO MA2**

FEATURES AND ADVANTAGES

- **XM-99** exceeds **API** Service Classification of **SN** requirements and is recommended for domestic and foreign high performance motorcycle engines. It is recommended for small, high RPM engines including those that are turbo-charged.
- Recommended for **all types of Motorcycles** requiring **JASO 4T** requirements.
- **XM-99** meets and exceeds various 4T OEMs warranty requirements.
- Highly oxidation stable - protects engine from oil thickening, high temperature sludge and varnish deposits.
- Extremely shear stable viscosity index improver-protects against viscosity breakdown in severe service.
- Effective detergent-dispersants and booster keeps engine parts clean.
- High TBN / alkaline reserve effectively neutralizes corrosive acids formed by combustion to protect critical turbo charger bearings and other vital engine surfaces.
- Anti-wear agents effectively protect highly loaded parts from wear (extra ZDDP).
- Effective booster improves wet clutch performance

TYPICAL SPECS

Test, SAE	ASTM	5W-40	10W-60	15W-50
Density @ 20°C	D-4052	0.8644	0.8644	0.8644
Flash Point, °C.	D-92	240	240	240
Pour Point, °C.	D-97	- 42	- 33	- 30
Viscosity @ 100°C, cSt	D-445	14.5	24.0	19.0
Viscosity @ - 30°C. CCS	D5293	4,000	5,500	4,600
MRV @ - 35°C	D-4684	20,000	30,000	30,000
HTHS, cps	D4683	4.0	4.0	4.2
NOACK EVAP, wt%	D5800	10.9	10.9	10.9
Foam Test I / II / III & Hi Temp	D-892 & D-6082	Passes	Passes	Passes
Appearance	Visual	Bright & Clear	Bright & Clear	Bright & Clear
Color	D-1500	3.0	3.0	3.0
Zinc, Wt. %		0.12	0.12	0.12
Calcium, Wt %		0.17	0.17	0.17
TBN	D-2896	8.0	8.0	8.0
Product Number:				
12x1 Liter		19771	19711	19761

VALUES SHOWN HERE ARE TYPICAL AND MAY VARY

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