



## 4T Synthetic MA

Phillips 66® 4T Synthetic MA is a premium quality, synthetic engine oil designed primarily for use in 4-stroke cycle motorcycles, scooters, and all-terrain vehicles (ATVs). It also may be used as transmission oil in motorcycles and ATVs where the manufacturer specifies the use of motor oil in the transmission.

4T Synthetic MA is formulated to provide excellent wear protection, to minimize the formation of sludge and varnish, and to resist viscosity and thermal breakdown at high temperatures. It also protects against rust and bearing corrosion and is resistant to excessive foam buildup and air entrainment. The synthetic formulation provides additional thermal stability at high temperatures.

4T Synthetic MA meets the performance requirements of major motorcycle manufacturers and API Service SL. It meets JASO MA friction test requirements for use in motorcycle engines with integrated clutch and transmission.

### Applications

- 4-stroke cycle motorcycles, scooters, and ATVs
- 4-stroke cycle gasoline engines in other mobile or stationary equipment where an API Service SL quality oil is specified

4T Synthetic MA meets or exceeds the requirements of and is approved for:

- JASO T 903:2011 Performance Classification MA

### Features/Benefits

- Enhanced resistance to viscosity and thermal breakdown at high temperatures
- Protects against sludge and varnish formation
- Protects against scuffing and wear
- High shear stability
- Protects against rust and bearing corrosion
- Good resistance to foaming and air entrainment
- Proper frictional properties to avoid clutch slippage

**Synthetic  
Engine Oil for  
4-Stroke Cycle  
Motorcycles,  
Scooters & ATVs**

**KEEPING THE  
WORLD  
RUNNING  
SMOOTHLY.**





## 4T Synthetic MA

| Typical Properties                         |               |
|--|---------------|
| <b>SAE Grade</b>                           | <b>10W-40</b> |
| Specific Gravity @ 60°F                    | 0.857         |
| Density, lbs/gal @ 60°F                    | 7.14          |
| Color, ASTM D1500                          | 2.5           |
| Flash Point (COC), °C (°F)                 | 234 (453)     |
| Pour Point, °C (°F)                        | -46 (-51)     |
| Viscosity, Kinematic                       |               |
| cSt @ 40°C                                 | 102           |
| cSt @ 100°C                                | 15.0          |
| Viscosity Index                            | 154           |
| Cold Cranking Viscosity, cP                | 6,184         |
| @ (°C)                                     | (-25)         |
| High Temp/High Shear Viscosity, cP @ 150°C | 4.2           |
| Sulfated Ash, ASTM D874, wt %              | 0.98          |
| Total Base Number (TBN), ASTM D2896        | 7.7           |
| Phosphorus, wt %                           | 0.114         |
| Zinc, wt %                                 | 0.125         |

## Health & Safety Information

For recommendations on safe handling and use of this product, please refer to the Safety Data Sheet via <http://www.phillips66.com/EN/products/Pages/MSDS.aspx>.

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Typical properties are average values only and do not constitute a specification. Minor variations that do not affect product performance are to be expected during normal manufacture, and at different blending locations. Product formulations are subject to change without notification.

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