



# Havoline® SuperMatic 4T JASO MB

## High Performance Premium Scooter Oil

Product Data Sheet

### Customer benefits

#### **Smoother Ride**

Highly effective friction modifier reduces engine friction to ensure minimum power loss, which in turn can mean reduced fuel consumption or improved power release and acceleration.

#### **Longer Drain Interval**

High performance formula provides excellent engine cleanliness in all service conditions. It also maintains performance throughout the full oil drain intervals as recommended by OEMs in modern scooter designs.

#### **Engine Durability**

Anti-wear additive system reduces wear of highly stressed engine components under severe operating conditions.

#### **Good all-temperature protection**

Highly shear stable viscosity index improver additive minimizes shear-thinning and resists breakdown under the high stresses which occur at high rotational speeds, to provide the correct oil viscosity for protection at both start-up and during high temperature operation.

### Applications

- Latest generation, four-stroke scooter engines
- Air and liquid-cooled four-stroke scooter engines
- Particularly suitable for Japanese high performance scooters
- Scooters fitted with exhaust catalytic converters

*Not suitable for use in motorcycles with oil-immersed clutches or with combined engine, clutch and gearbox lubrication from a single sump.*

### Product features:

- **Havoline® SuperMatic 4T** is a premium performance, shear-stable, multigrade, four-stroke scooter engine oil, suitable for use where JASO MB, API SL lubricants are required, including high specific output engines operating in severe service.

## Typical key properties

HAVOLINE® SUPERMATIC 4T		
SAE Grade	10W-40	20W-40
Product Code	500710	500718
Base No., D2896, mgKOH/g	7.8	7.8
Pour Point, °C	-30	-36
Sulfated Ash, m %	0.99	0.99
Viscosity, mm <sup>2</sup> /s @ 40°C	100	118.3
mm <sup>2</sup> /s @ 100°C	14.4	14.4
Viscosity Index	154	122
Phosphorus, m %	0.10	0.10

1506

## Performance standards

### • JASO MB

JASO MB (2006) :

JASO Identification Number: M061CTC111 (for SAE 10W-40)

JASO MB (2011) :

JASO Identification Number : M065CTP123 (for SAE 20W-40)

### • API SL

## ENVIRONMENT, HEALTH and SAFETY

Information is available on this product in the Material Safety Data Sheet (MSDS) and Customer Safety Guide. Customers are encouraged to review this information, follow precautions and comply with laws and regulations concerning product use and disposal. To obtain a MSDS for this product, visit: [www.caltex.com](http://www.caltex.com).

This bulletin was prepared in good faith from the best information available at the time of issue. While the values and characteristics are considered representative, some variation, not affecting performance, can be expected. It is the responsibility of the user to ensure that the products are used in the applications for which they are intended.

Produced by:

**Chevron Lubricants**

– Asia Pacific



## Service Considerations

JASO MB oils as a class have relatively low friction, typically achieved through the inclusion of friction modifiers. This low friction assists in maximizing scooter engine performance, the reduction in engine friction allowing either improved fuel economy or higher performance, usually realized as better acceleration.

However, this low friction makes JASO MB oils generally unsuitable for use in motorcycles with oil-immersed clutches, which require higher friction fluids. Thus Havoline® SuperMatic 4T is recommended for use only in those scooters in which the engine is independently lubricated. This includes the majority of modern types, which are fitted with belt-type continuously variable automatic transmissions.

For modern motorcycles requiring multifunctional fluids, Havoline® Super 4T is recommended.

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