



## Caltex Havoline Motorcycle Engine Oils Product Fact Sheet



### **About Caltex Havoline Super 4T & SuperMatic 4T**

Caltex Havoline motorcycles and scooters engine oils includes fully synthetic, semi-synthetic and mineral products formulated with Havoline's signature C.O.R.E.+ Technology and ZOOMTECH.

#### **Key features include:**

- Overall improvement in product performance with the upgrade to C.O.R.E.+ Technology, Caltex's most advanced and best-performing formulation.
- Meeting API SN performance specifications across entire product range, which delivers benefits such as:
  - High temperature piston deposit protection
  - Improved robustness in wear control
  - Enhanced oxidation thickening for better lubrication of the engine
  - Sludge control properties, especially in urban, stop-go conditions
- Upgraded products in semi-synthetic and mineral tiers to meet API SN and JASO MA2 performance, where market norm is a mix of API SJ, SL and SN.



### **About C.O.R.E.+ Technology**

By using carefully selected base oils with an outstanding additive package, Havoline is able to deliver the right balance between clutch friction, heat protection, detergency, and lubrication.

- **C**leans and protects – Maintains efficient engine performance
- **O**xidation stability – Protects against oil degradation
- **R**educes engine heat damage – Delivers continuous and superior oil stability
- **E**nhances acceleration – Improves clutch grip under high loads with ZOOMTECH



### **About ZOOMTECH**

ZOOMTECH delivers better oil frictional properties. For the everyday rider, this improves clutch grip and prevents slippage, especially under high load conditions, and ensures maximum power transfer for enhanced acceleration.



**Product lineup**

PRODUCT	FEATURES	RECOMMENDED FOR
<b><i>For Manual Transmission Motorcycles</i></b>		
<b>Havoline Super 4T Fully Synthetic</b>  SAE 5W-40 & 10W-50  API SN JASO MA2	<ul style="list-style-type: none"> <li>• 35% more efficient<sup>1</sup> in keeping engine clean and control of deposits, to deliver better engine performance</li> <li>• 80% headroom<sup>2</sup> to failure limit, providing reliable protection against oil oxidation, and reduces engine heat damage</li> <li>• 13% improvement in SFI<sup>3</sup> to deliver improved clutch grip under high loads</li> </ul>	Premium and large capacity motorcycles
<b>Havoline Super 4T Semi-Synthetic</b>  SAE 10W-40  API SN JASO MA2	<ul style="list-style-type: none"> <li>• 17% more efficient<sup>1</sup> in keeping engine clean and control of deposits, to deliver better engine performance</li> <li>• 60% headroom<sup>2</sup> to failure limit, providing reliable protection against oil oxidation, and reduces engine heat damage</li> <li>• 13% improvement in SFI<sup>3</sup> to deliver improved clutch grip under high loads</li> </ul>	Newer models of manual transmission motorcycles
<b>Havoline Super 4T</b>  SAE 15W-40, 20W-40  API SN JASO MA2	<ul style="list-style-type: none"> <li>• 10% more efficient<sup>1</sup> in keeping engine clean and control of deposits, to deliver better engine performance</li> <li>• 45% headroom<sup>2</sup> to failure limit, providing reliable protection against oil oxidation, and reduces engine heat damage</li> <li>• 13% improvement in SFI<sup>3</sup> to deliver improved clutch grip under high loads</li> </ul>	All manual transmission motorcycles
<b><i>For Scooters and Automatic Transmission Motorcycles</i></b>		
<b>Havoline SuperMatic 4T Semi-Synthetic</b>  SAE 10W-40  API SN / JASO MB	<ul style="list-style-type: none"> <li>• 17% more efficient<sup>1</sup> in keeping engine clean and control of deposits, to deliver better engine performance</li> <li>• 60% headroom to failure limit<sup>2</sup>, providing reliable protection against oil oxidation, and reduces engine heat damage</li> </ul>	Scooters with dry-clutch CVT gearbox
<b>Havoline SuperMatic 4T</b> SAE 10W-40 API SN JASO MB	<ul style="list-style-type: none"> <li>• 10% more efficient<sup>1</sup> in keeping engine clean and control of deposits, to deliver better engine performance</li> <li>• 45% headroom to failure limit<sup>2</sup>, providing reliable protection against oil oxidation, and reduces engine heat damage</li> </ul>	Scooters with dry-clutch CVT gearbox



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<sup>1</sup> Compared against industry standard limit of API SN, and results are based on Seq IIIH for WPD merit.

<sup>2</sup> Compared against industry standard failure limit of API SN, and results are based on Seq IIIH for viscosity increase.

<sup>3</sup> SFI (static friction index) compared against previous formulation of Havoline Super 4T Synthetic Blend SAE 10W-40.