



# Technical Service Bulletin

Date: 10/3/2004

Product Description: All Harley Davidson Oil Recommendations

Subject: AMSOIL Recommendations for All Harley Davidson

**OBJECTIVE:**

To recommend the preferred AMSOIL products for use in Harley Davidson Motorcycles, with reference to second and third oil options. To indicate recommended service intervals when AMSOIL lubricants are used.

99887-84 Primary Lube      **MCV** 20W-50 Motorcycle Oil  
 99896-88 Sport-Trans fluid      **MCV** 20W-50 Motorcycle Oil  
 99880-73 Type B Fork oil      **STM** Suspension Fluid  
 99884-80 Type E Fork oil      **STM** Suspension Fluid

**ISSUES:**

Harley Davidson has recommended both gear lube and motorcycle oils in their motorcycles. There are many different models with different oil recommendations. This can cause some confusion in which AMSOIL will clarify.

**DESCRIPTION & RECOMMENDATIONS:**

Harley Davidson has manufactured 9 types of engines from 1929 to the current model. Flathead (1929-1974), Knucklehead (1936-1947), Panhead (1948-1965), Shovelhead (1966-1984), Evolution (Blockhead) 1340 (1984-1999), Big Twins 1450 (2000 to current), Revolution/V-Rod (2001 to current) Ironhead Sportsters (1957-1984) & Evolution Sportsters 1985 to current.

Harley Davidson recommends SAE 60 or 50 for the engine oil in their **Flathead, Knucklehead, Panhead, and Shovelhead**. AMSOIL recommends AHR SAE 60 or MCV 20W-50 motorcycle oil for all these older models. Use AMSOIL SVG or SVO for the transmissions. Of these models only the Shovelhead has a chain case that is lubed and is fed by the engine oil.

In the **Evolution 1340, Big Twins 1450, and V-Rods**, AMSOIL recommends MCV 20W-50 motorcycle oil in all 3 holes (engine, transmission, and primary chain case). AMSOIL recommends SVG as an alternative oil for the transmission, and SVO as an option for older transmissions. New seals are recommended where excessive leaking exists.

**Ironhead & Evolution Sportsters** use one sump for both transmission and chain case. AMSOIL recommends MCV motorcycle oil for this common sump.

**AMSOIL Cross Reference**

<b>Harley Davidson Part #</b>	<b>AMSOIL Product</b>
99816-60 HD Engine Oil	<b>AHR</b> SAE 60 Engine Oil <b>MCV</b> 20W-50 Motorcycle Oil
99892-84 Transmission Lube	<b>SVG</b> 75W-90 Gear Lube <b>SVO</b> 75W-140 Gear Lube
99824-03 Syn 3	<b>MCV</b> 20W-50 Motorcycle Oil

**Key to Harley Davidson/AMSOIL Oil Chart**

First      AMSOIL preferred recommendation  
 Second    Option 2  
 Third      Option 3

Harley Davidson Models	First	Second	Third
<b>Flathead</b>			
Engine	<b>AHR</b>	<b>MCV</b>	---
Transmission	<b>SVG</b>	<b>SVO</b>	---
<b>Knucklehead</b>			
Engine	<b>AHR</b>	<b>MCV</b>	---
Transmission	<b>SVG</b>	<b>SVO</b>	---
<b>Panhead</b>			
Engine	<b>AHR</b>	<b>MCV</b>	---
Transmission	<b>SVG</b>	<b>SVO</b>	---
<b>Shovelhead</b>			
Engine	<b>AHR</b>	<b>MCV</b>	---
Transmission	<b>SVG</b>	<b>SVO</b>	---
<b>Evolution 1340, Big Twins 1450, and Revolution-V-Rods</b>			
Engine	<b>MCV</b>	---	---
Transmission	<b>MCV</b>	<b>SVG</b>	<b>SVO</b>
Primary Chain Case	<b>MCV</b>	---	---
<b>Ironhead &amp; Evolution Sportsters</b>			
Engine, Transmission/ Chain Case	<b>MCV</b>	---	---

Submitted By: KD & DA

Reviewed By: DY

Approved By: Alan Amatuzio

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**RECOMMENDED SERVICE INTERVALS:**

The following lubricant service interval are suggested only when the indicated AMSOIL product is used.

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**MODIFICATIONS:**

Where the engine or operating conditions have been modified from the original manufacturer's design, no oil change interval recommendation is made. Oil change intervals are at the owner's discretion or extended based on oil analysis.

Harley-Davidson model and application	First	Second	Third
<b>Flathead, Knucklehead, Panhead &amp; Shovelhead</b>			
Engine	<b>AHR</b> - up to 2 times longer than Harley-Davidson recommendations or 1 year, whichever comes first.	<b>MCV</b> - up to 2 times longer than Harley-Davidson recommendations or 1 year, whichever comes first.	—
Transmission	<b>SVG</b> - up to 2 times longer than Harley-Davidson recommendations or 1 year, whichever comes first.	<b>SVO</b> - up to 2 times longer than Harley-Davidson recommendations or 1 year, whichever comes first.	—
<b>Ironhead and Evolution Sportsters</b>			
Engine, Transmission/Chain Case	<b>MCV</b> - up to 10,000 miles or 1 year which ever comes first		
<b>Evolution 1340, Big Twins 1450, and Revolution</b>			
Engine	<b>MCV</b> - twice H/D interval or up to 10,000 miles or 1 year which ever comes first	—	—
Transmission	<b>MCV</b> - up to 20,000 miles or 1 year which ever comes first	<b>SVG</b> - up to 20,000 miles or 1 year which ever comes first	<b>SVO</b> - up to 20,000 miles or 1 year which ever comes first
Primary Chain Case	<b>MCV</b> - up to 10,000 miles or 1 year which ever comes first	—	—
<b>V-Rods</b>			
Engine,/Transmission/Chain Case	<b>MCV</b> - up to 10,000 miles or 1 year which ever comes first	—	—

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