



## 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.

### Key to Harley Davidson/AMSOIL Oil Chart

First	AMSOIL preferred recommendation
Second	Option 2
Third	Option 3

### 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	AHR SAE 60 Engine Oil
	MCV 20W-50 Motorcycle Oil
99892-84 Transmission Lube	SVG 75W-90 Gear Lube
	SVO 75W-140 Gear Lube
99824-03 Syn 3	MCV 20W-50 Motorcycle Oil

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

Submitted By: KD & DA

Reviewed By: DY

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Subject: AMSOIL Recommendations for All Harley Davidson

## RECOMMENDED SERVICE INTERVALS:

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

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

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