



Technical Service Bulletin

Date: 10/3/2004

Product Description: All Harley Davidson Oil Recommendations

Subject: AMSOIL Recommendations for All Harley Davidson

OBJECTIVE:

Recommend the preferred AMSOIL products for use in Harley Davidson Motorcycles, with emphasis on second and third oil options. This document also outlines recommended service intervals for AMSOIL lubricants.

ISSUES:

Harley Davidson recommends both gear lube and motorcycle oils for their equipment and there are many different models with corresponding specific oil recommendations. The variety of recommendations can cause confusion in and lack of confidence in making the correct AMSOIL lubricant recommendation. The following charts outline the proper sequence of product recommendations for the Harley Davidson products listed.

- | | |
|---------------------------------|---------------------------|
| 98853-96 75W-90 Trans Fluid | SVT 75W-110 Gear Lube |
| 99887-84 Primary Chaincase Lube | MCF 10W-40 motorcycle oil |
| 99896-88 Sport-Trans fluid | MCF 10W-40 motorcycle oil |
| 99851-05 Formula + | MCV 20W-50 motorcycle oil |
| 99880-73 Type B Fork oil | STM Suspension Fluid |
| 99884-80 Type E Fork oil | STM Suspension Fluid |

Key to Harley Davidson/AMSOIL Oil Chart

- | | |
|--------|--|
| First | AMSOIL preferred recommendation |
| Second | Secondary option based on availability or preference |
| Third | Tertiary option based on availability or preference |

DESCRIPTION & RECOMMENDATIONS:

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

Harley Davidson recommends SAE 60 or SAE 50 engine oil for **Flathead, Knucklehead, Panhead, and Shovelhead** equipped bikes. AMSOIL recommends AHR SAE 60 or MCV 20W-50 motorcycle engine oil for these vintage models. AMSOIL SVT or SVO should be used in transmissions found on these models. Shovelhead is the only model with a chain case that is lubricated via engine oil.

AMSOIL recommends MCV 20W-50 motorcycle oil in all 3 holes (engine, transmission, and primary chain case) on **Evolution 1340 and all Twin Cam** engines. AMSOIL recommends SVT as a secondary oil for the transmission, and SVO as an option for older transmissions. New seals are recommended where excessive leaking is evident.

Ironhead, Evolution Sportsters and V-Rod use one lubricant for both the engine and transmission and AMSOIL recommends MCV motorcycle oil for this common sump.

Harley Davidson Models	First	Second	Third
Flathead			
Engine	AHR	MCV	---
Transmission	SVT	SVO	---
Knucklehead			
Engine	AHR	MCV	---
Transmission	SVT	SVO	---
Panhead			
Engine	AHR	MCV	---
Transmission	SVT	SVO	---
Shovelhead			
Engine	AHR	MCV	---
Transmission	SVT	SVO	---
Evolution 1340 and all Twin Cam			
Engine	MCV	---	---
Transmission	MCV	SVT	SVO
Primary Chain Case	MCV	MCF	---
Ironhead, Evolution Sportsters & V-Rod			
Engine, Transmission	MCV	---	---

AMSOIL Cross Reference

Harley Davidson Part #	AMSOIL Product
99816-60 HD 360 SAE 60 Engine Oil	AHR SAE 60 Engine Oil
99816-50 HD 360 SAE 50 Engine Oil	MCV 20W-50 Motorcycle Oil
99816-2050 HD 360 SAE 20W-50	MCV 20W-50 Motorcycle Oil
99816-1040 HD 360 SAE 10W-40	MCF 10W-40 Motorcycle Oil
99824-03 Screamin Eagle Syn 3	MCV 20W-50 motorcycle oil
99892-84 Semi-Syn Trans Lube	SVT 75W-110 Gear Lube
	SVO 75W-140 Gear Lube

Submitted By: KD & DA

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Approved By: DP

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RECOMMENDED SERVICE INTERVALS:

The following lubricant service intervals are recommended for AMSOIL products exclusively.

MODIFICATIONS:

Where the engine or operating conditions have been modified from the original manufacturer's design, the recommended AMSOIL service intervals cannot be utilized. An exception would be Dealer-installed, street-legal EFI Stage kits offered by Harley Davidson. In all other cases of modifications, oil change intervals are at the owner's discretion or based on specific oil analysis program recommendations. To setup a program, call Oil Analyzers (OAI) at 715-395-0222 or 1-800-956-5695.

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	SVT - 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, Evolution Sportster & V-Rod			
Engine, Transmission/Chain Case	MCV - up to 10,000 miles or 1 year which ever comes first		
Evolution 1340 and all Twin Cam			
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	SVT - 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	MCF - up to 10,000 miles or 1 year which ever comes first	—

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