

CITGO Technical Bulletin

OEM Recommendations for Small Engines

TWO-STROKE OUTBOARD OEM'S

		GEO Recommendation	Alternate Recommendations
	OMC	Johnson/Evinrude	TC-W3
Carburated	Mercury	Precision Premium Plus	TC-W3
Two-Stroke	Yamaha	Yamalube 2M	TC-W3
Outboard	Nissan	Yes	TC-W3
	Suzuki	Yes	TC-W3
	Tohatsu	Yes	TC-W3
DFI	OMC	Ficht Ram Injection Oil	TC-W3
Two-Stroke	Mercury	Precision Premium Plus	TC-W3
Outboard	Yamaha	Yamaha 2M	TC-W3

FOUR-STROKE OUTBOARD OEM'S

		GEO Recommendation	Alternate Recommendations
	OMC	OMC Ultra 4 Stroke Outboard Oil	Dealer Recommendation
	Mercury	Precision 10W-30 4 Stroke Outboard Oil	Other OEM 4-Stroke Outboard Oil (Other non-OEM Oils not recommended)
Four-Stroke Outboard	Honda	_	10W-30 Recommended. Pennzoil synthetic 10W-30 or Enzo 10W-30 acceptable after 20-25 hrs. break-in
	Suzuki	_	10W-40 with API SE, SF, SG or SH
	Yamaha	-	10W-30, 10W-40 or 20W-40 with API SE, SF, SG or SH

INBOARD AND STERN DRIVE OEM'S

		GEO Recommendation	Alternate Recommendations	Not Recommended
Inboard	OMC	OMC Cobra 4-Cycle Motor Oil	Quality SG/CD meeting: GM-6094-M or Ford ESE-M2C153-E	Multi-viscosity oils such as 10W-30 or 10W-40
or Stern Drive	Mercury	Precision 25W-40 4 Cycle Marine Engine Oil	Straight weight SH, CF/CF-2 detergent automotive oil: SAE 20W < 32°F SAE 30W 32 - 50°F SAE 40W > 50°F or 20W-40 SH, CF/CF-2 or 20W-50* SH, CF/CF-2 *less preferred	Non-detergent multi-viscosity oils (other than 20W-40 or 20W-50) Low quality oils Oils containing solid additives

NORTH AMERICAN TWO-STROKE LAND EQUIPMENT OEM'S

	GEO Recommendation	Alternate Recommendations
Toro	Yes @ 32.1	Ashless TC-WII or TC-W3
Husqvarna	Yes - ISO-EGD @ 50:1	"Good quality"oil
Stihl	Yes @ 50:1	API TC @ 25:1
Homelite	Yes @ 50:1	"High quality"oil @ 32:1
Redmax	Yes @ 32:1	"Quality"air-cooled oil with anti-oxidant added
McCulloch	Yes @ 40:1	"Premium grade"air-cooled oil
Poulan	Yes @ 40:1	"Good quality"air-cooled oil
Echo	Yes - ISO-EGD @ 50:1	ISO-EGD oil
Craftsman	Yes @ 40:1	"Good quality"air-cooled oil
Ryobi	Yes @ 32:1	"High quality"air-cooled oil
John Deere	Yes @ 50:1	Other BIA TC-W oil @ 32:1

RECREATIONAL TWO-STROKE OEM'S

		GEO Recommendation	Alternate Recommendations
	Ski-Doo	Ski-Doo Injection Oil (1)	No alternate recommendation (3)
Snowmobile	Polaris	Polaris Premium (4)	No alternate recommendation
Showmonie	Artic Cat	Artic Extreme (5)	No alternate recommendation
	Yamaha	Yes	No alternate recommendation
ATV	Polaris	Yes	No alternate recommendation
	Sea-Doo	Sea-Doo Injection Oil (2)	Low-ash API TC (3)
DWO	Polaris	Polaris Premium (4)	No alternate recommendation
PWC	Yamaha	Yes	TC-W3
	Kawasaki	Yes	TC-W3 or TC-WII

⁽¹⁾ Bombardier Rotax Formula XP-S synthetic injection oil (for the equivalent synthetic oil) is recommended for XP, GSX and GTX Limited models.

- (4) Polaris VES Oil recommended for engines equipped with exhaust valves.
- (5) Arctic Cat Exhaust Valve Oil recommended for engines equipped with exhaust valves.

JAPANESE TWO STROKE MOTORCYCLE OEM'S

	Honda		Yamaha			Suzuki	Kav	vasaki	
	GEO	Alternate	GEO Alternate		GEO	Alternate	GEO	Alternate	
China	Yes	FC	Yes		Yes		Air-coo	led 2T oil	
Malaysia	FC		Air-Coo	oled 2T oil	Yes		Air-coo	led 2T oil	
Vietnam					Yes		Air-coo	led 2T oil	
Indonesia	2	T oil	Yes		Yes		Air-coo	led 2T oil	
India	Yes	FC	Specified brand		Yes		Air-cooled 2T oil		
Thailand	Yes	FC/TISI	Yes		Yes		Air-cooled 2T oil		
Japan	Yes	FC`	Yes		Yes	FC	Yes FC		
USA	Yes	FC	Yes		Yes	FC	Air-cooled 2T oil		
Europe	Yes	FB	Yes		Yes	FB	Air-coo	led 2T oil	

⁽²⁾ Bombardier Rotax Formula XP-S DI synthetic injection oil (or equivalent) recommended for 947 DI engines. Bombardier Rotax Formula XP-s synthetic injection oil (or the equivalent synthetic oil) is recommended for RX carburated models.

⁽³⁾ Ashless outoard formulations are specifically not recommended.

CURRENT 4T MOTORCYCLE OEM GENUINE OIL RECOMMENDATIONS

Major Recommendations

	API Quality	JASO 4T
Yamaha	SE/SF	MA
Suzuki	SE/SF/SG	MA
Kawasaki	SE/SF/SG	MA
Honda	SF-SG/SH	MA
	SF-SG/SH	MB

CURRENT 4T MOTORCYCLE OEM GENUINE OIL RECOMMENDATIONS

OEM's Primarily Recommend API SG, or Earlier Quality Levels, in Owner's Manuals.

	SC	SE	SF	SG	SH	SJ
China		YSK	SK	HSK		
Malaysia		YSK	YKS	KS	Н	
Vietnam		YSK	YKS	HKS		
Indonesia		YSK	HYKS	KS		
India	Н	SK	KS	KS		
Thailand		SK	KSY	HKS		
Japan		HSK	HYK	YK		Y
USA		YK	H SKY	BDH SK Q		
Europe		YK	YSK	HSK	Н	

B=BMW D=Harley-Davidson H=Honda Q=Husqvarna K=Kawasaki S=Suzuki Y=Yamaha *Italic*=Only one source mentions this recommendation

CURRENT 4T MOTORCYCLE OEM GENUINE OIL RECOMMENDATIONS

OEM's Primarily Recommend 10W-40, or Heavier Oils, in Owner's Manuals. Recommendation depends on the ambient temperature of the driving region.

	5W30	10W30	10W40	10W50	15W50	15W40	20W40	20W50	20	30	40	50	60
China	Υ	HY	YSK	K			K	K					
Malaysia		Υ	YSK	K			HYK	YK					
Vietnam			SK	K			YK	YK			Н		
Indonesia			SK	K			YK	HYK					
India			SK	K			HK	K					
Thailand			SK	K		κ	ΚY	K		Н	H SK		
Japan		Н	HYSK	Y			Υ						
USA		В <i>Н</i>	BDHSK	BK	В	В	B H YK	BD H KQ	В	В	В	D	D
Europe		Y	HYSK	K			YK	HYK					

B=BMW D=Harley-Davidson H=Honda Q=Husqvarna K=Kawasaki S=Suzuki Y=Yamaha *Italic*=Only one source mentions this recommendation