



PENNZOIL MARINE® POWERTRAIN LUBRICANTS

Marine Outboard Gear Lube

Marine High Viscosity Lower Unit Gear Lube

Marine Power Trim & Tilt Fluid

Marine 100% Synthetic* Lower Unit Gear Lube

PRODUCT DESCRIPTION

PENNZOIL MARINE® OUTBOARD GEAR LUBE and PENNZOIL MARINE® HIGH VISCOSITY LOWER UNIT GEAR LUBE are special marine grade formulations designed to withstand high amounts of water contamination. Both contain stable extreme pressure additives and corrosion inhibitors to protect gears and bearings subject to corrosion by water seepage. Special antifoam agents insure excellent lubrication to all gears and bearings under the severe churning action of marine gear cases.

PENNZOIL MARINE® POWER TRIM & TILT FLUID is formulated with rust and corrosion inhibitors, hydraulic oil additives and an extreme pressure additive. This special marine grade formula protects trim and tilt systems as well as power steering systems against corrosion and wear.

PENNZOIL® 100% SYNTHETIC* LOWER UNIT GEAR LUBE is formulated with synthetic base stocks which have better oxidation and low temperature properties compared to conventionally refined mineral oil base stocks. Because of these properties, PENNZOIL® 100% SYNTHETIC* LOWER UNIT GEAR LUBE should stand up to the toughest high speed and horsepower demands placed on it, day in and day out, by high powered marine engines, offering maximum lubrication and gear protection over a wide range of temperatures. It contains extreme pressure agents, which protect against shock loading and wear. Foam inhibitors protect against oil aeration, which can rupture the lubricant film and cause wear due to lack of lubrication. Special rust inhibitors are incorporated into PENNZOIL® 100% SYNTHETIC* LOWER UNIT GEAR LUBE to protect against corrosion than can result from water condensation. Oxidation inhibitors are included to enhance the excellent oxidation stability of the synthetic oil. It exceeds the API GL-5 service level performance requirements and is an SAE 75W-90 grade.

*Exclusive of additive carrier oil

APPLICATION

PENNZOIL MARINE® OUTBOARD GEAR LUBE may be used in all outboard gear cases where an SAE 80W-90 API GL-4 gear lubricant or older Type C is specified. Older models (prior to 1978) sometimes require special products. Check your owner's manual for any models over ten years old. Johnson and Evinrude models with electric shift (1972 and earlier) and pre-1977 OMC Stern Drive require Pennzoil ATF Automatic Transmission Fluid.

PENNZOIL MARINE® HIGH VISCOSITY LOWER UNIT GEAR LUBE may be used in lower units calling for a marine grade SAE 80W-90 API GL-5 gear lubricant. **It is also recommended for lower units that require an SAE 90 Hypoid gear oil.**

PENNZOIL MARINE® POWER TRIM & TILT FLUID is an all-purpose hydraulic fluid that may be used in trim and tilt systems as well as power steering systems.

PENNZOIL® 100% SYNTHETIC* LOWER UNIT GEAR LUBE may be used in transmissions and lower units which require an API GL-5 SAE 75W-90 gear oil.

*Exclusive of additive carrier oil

BENEFITS

- Helps protect against rust and corrosion
- EP chemistry provides maximum wear protection
- Antifoam agents prevent oil aeration under severe gear churning
- Helps prevent damage from water contamination
- Gear oil should be changed yearly before storing

TYPICAL PHYSICAL AND CHEMICAL PROPERTIES PENNZOIL MARINE® POWERTRAIN LUBRICANTS

TEST	METHOD	TYPICAL RESULTS			
Product		Outboard Gear Lube	Synthetic Lower Unit Gear Lube	High Viscosity Lower Unit Gear Lube	Power Trim & Tilt Fluid
SAE Viscosity Grade	SAE J300	80W-90	75W-90	80W-90	--
Gravity, °API	ASTM D-1298	27.6	30.2	26.2	31.8
Viscosity					
@ 40°C, cSt	ASTM D-445	147	123.9	150	70
@ 100°C, cSt	ASTM D-445	14	16.8	15	10
Viscosity Index	ASTM D-2270	90	142	95	130
Material Number					
12/1 Quart			56573	4949	
55 Gallon Drum				4919	
Case of 12		4947		4948	3382
5 Gallon Plastic Pail				4950	