



LUBRICANTS

AN HF SINCLAIR BRAND

TECH DATA

DEXRON® GEAR OIL 75W-90 & DEXRON® LS GEAR OIL 75W-90

INTRODUCTION

Petro-Canada Lubricants DEXRON® gear oils are synthetic extreme pressure (EP) automotive axle lubricants formulated to provide excellent long-lasting wear protection to extend equipment life and reduce downtime and maintenance costs. These API GL-5 quality products are offered in a SAE 75W-90 viscosity grade and provide excellent year-round performance. DEXRON® Gear Oil 75W-90 is particularly suited for applications requiring a synthetic gear lubricant that meets General Motors 9986285 (or GMW16433). DEXRON® LS Gear Oil 75W-90, with added friction modifiers to perform in limited-slip differentials†, is designed for applications requiring a product that meets General Motors 9986290 (or GMW16445).

DEXRON® hypoid gear oils start with high quality, ultra pure base oil. By combining these base oils with specialty additives, DEXRON® gear oils deliver maximum performance.

FEATURES AND BENEFITS

Overall Excellent Durability and Wear Protection

- As a result of their anti-wear EP additives, DEXRON® gear oils provide excellent protection as proven by their performance in the stressed L-37 and L-42 durability tests. They can protect equipment being driven longer, harder and faster in tougher conditions for extended equipment life and reduced maintenance costs.

The L-37 (ASTM D6121) durability test is an axle dynamometer test that assesses fluid performance under low speed and high torque conditions. The stressed or high temperature L-37 is run at 163°C/325°F for 16 hours and parts are rated at the end of the test for wear, ridging, rippling, pitting/spalling and scoring.

- DEXRON® gear oils provide superior protection as proven by meeting or exceeding the specification requirements for all five parameters of the stressed L-37 test.

L-37 TEST (GMW16445 & GMW16433 REQUIREMENTS)

		DEXRON® GEAR OIL 75W-90		DEXRON® LS GEAR OIL 75W-90	
Parameter	Requirement	Ring Gear	Pinion Gear	Ring Gear	Pinion Gear
Wear	≥ 5	7.0	7.0	7.0	8.0
Rippling	≥ 8	9.0	9.0	9.0	9.0
Ridging	≥ 8	10.0	9.0	10.0	8.0
Pitting/Spalling	≥ 9.3	9.9	9.9	9.9	9.8
Scoring	≥ 9	10.0	10.0	10.0	10.0

DEXRON® is a registered trademark of General Motors LLC.

†DEXRON® Limited Slip (LS) Gear Oil is primarily for use in axles in cars and trucks with plate type GM LS differentials.

Petro-Canada Lubricants specialty fluids, lubricants and greases have an advantage in quality and performance. That's because our formulas are created and reviewed by an expert team of Research & Development specialists who ensure our finished products deliver to the specifications we demand and the performance standards our customers need.

The L-42 (ASTM D7452) durability test is an axle dynamometer test that operates under high speed and shock load conditions evaluating the ability of the fluid to prevent seizure. Parts are rated based on the area of scoring on the gear teeth.

- DEXRON® gear oils protect equipment to ensure extended life as proven by the L-42 test results.

L-42 TEST*

	DEXRON® GEAR OIL 75W-90		DEXRON® LS GEAR OIL 75W-90	
	Ring Gear, Coast Side	Pinion Gear, Coast Side	Ring Gear, Coast Side	Pinion Gear, Coast Side
% Scoring	8	14	9	19
% Scoring (reference oil avg.)	20	25	20	25

*GMW16445 & GMW16433 requirements are that the result must be better (lower) than the reference oil result.

TYPICAL PERFORMANCE DATA

Property	ASTM Test method	DEXRON® GEAR OIL 75W-90	DEXRON® LS Gear Oil 75W-90
Density, kg/L, 15°C (60°F)	ASTM D4052	0.8567	0.8601
Flash Point, COC, °C (°F)	ASTM D92	187 (369)	183 (361)
Kinematic Viscosity, cSt @ 40°C (SUS @ 100°F) cSt @ 100°C (SUS @ 210°F)	ASTM D445	88.5 (448.8) 15.2 (80.2)	83.75 (424.8) 14.4 (76.9)
Viscosity Index	ASTM D2270	182	179
Brookfield Viscosity, cP @ -40°C (-40°F)	ASTM D2983	41,391	38,142
Pour Point, °C (°F)	ASTM D5950	< -57 (-71)	< -57 (-71)
Foaming Resistance, Sequence 1 Sequence 2 Sequence 3	ASTM D892	0/0 25/0 0/0	0/0 20/0 0/0

The values quoted above are typical of normal production. They do not constitute a specification.

Learn more about us: [petrocanadalubricants.com](https://www.petrocanadalubricants.com)

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Committed to the disciplined operation of our business.



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