



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

Introduction

Petro-Canada's 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 the 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 GMW 16445).

DEXRON® hypoid gear oils start with the HT purity process to produce a 99.9% pure, crystal clear base oil. By removing the impurities that can hinder the performance of competitive conventional oils, and blending in specialty additives, DEXRON® gear oils deliver maximum performance.

Features and Benefits

Overall Excellent Durability and Wear Protection

- **As a result of its 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 where parts are rated at the end of 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.**

What is the HT difference?

Petro-Canada Lubricants starts with the HT purity process to produce water-white, 99.9% pure base oils. The result is a range of lubricants, specialty fluids and greases that deliver maximum performance for our customers.



L-37 Test (GMW 16445 & GMW 16433 Requirements)

Parameter	Requirement	DEXRON® GEAR OIL 75W-90		DEXRON® LS GEAR OIL 75W-90	
		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

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

The L-42 (ASTM D7452) durability test is an axle dynamometer test that operates under high speed and shock load conditions evaluating the ability 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

*GMW 16445 & GMW 16433 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)
Brookfield Viscosity, cP @ -40°C (-40°F)	ASTM D2983	41,391	38,142
Viscosity Index	ASTM D2270	182	179
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.

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To order product or to learn more about how Petro-Canada Lubricants can help your business visit: lubricants.petro-canada.com or contact us at: lubecsr@petrocanadalsp.com



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