



**T0-4 spec'd. Industry surpassed.**



**PRODURO™ TO-4+**  
Transmission/Drive Train Oil.



# Introducing

## Start pure. Finish strong.



Why is PRODURO TO-4+ better than leading competitors? PRODURO TO-4+'s unique better protection formula starts with the HT purity process Petro-Canada uses to produce its 99.9% pure, crystal-clear base oils – among the purest in the world. By removing the impurities that hinder the performance of competitive TO-4 oils, PRODURO TO-4+ retains its “fresh oil” properties longer. Then Petro-Canada blends in specialty additives for even longer fluid life, greater equipment protection, and smoother performance, delivering dependable operation of transmissions and drive trains.

## Exceptional Service

- **Problem-solvers.** Petro-Canada's dedicated technical support and sales team understands the productivity challenges faced by maintenance managers everywhere. Trust Petro-Canada to deliver solutions that are proven to increase productivity and lower operating costs.
- **Proven track record.** Companies around the world depend on Petro-Canada's specialized services including lubrication consolidation, technical leadership and training, best in class warranty protection, and local delivery.

## PRODURO TO-4+ Protects Better, Longer

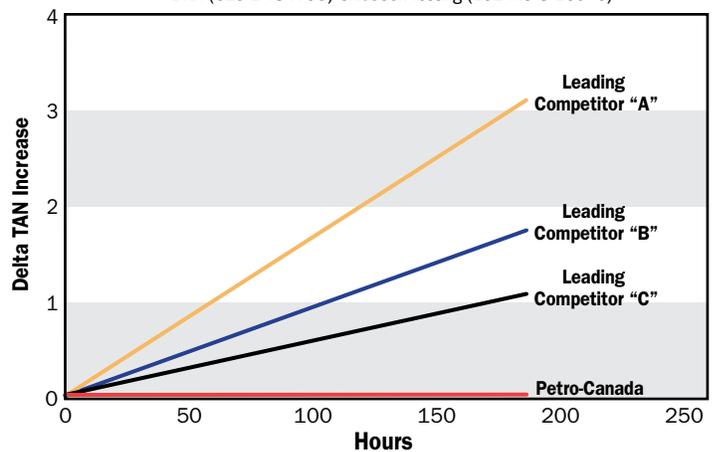
Get better protection and wider temperature ranges than competitive TO-4 oils. Formulated to meet the tough needs of off-road fleets in the mining, construction, and forestry industries, all PRODURO TO-4+ products have longer oil life than conventional competitive TO-4 oils and exceed the requirements of Caterpillar TO-4, Komatsu Micro-Clutch and the legacy Allison C-4 performance specifications.

You get the extra protection that cuts maintenance costs and extends equipment life. Protection that keeps your machinery in the field, performing consistently and reliably.

### PRODURO TO-4+ 30

Resists oil degradation and sludging for longer oil life and better protection.

DKA (CEC-L-48-A-95) Oxidation Testing (192 hrs @ 160°C)



In the DKA oxidation test, product performance is measured by how much the acidity of the oil (TAN) increases over time (therefore the flatter the line the better). Compared to the leading competitors, Petro-Canada's PRODURO TO-4+ 30 advanced formulation resists oil degradation best.

## PRODURO TO-4+ Synthetic All Season Protection



PRODURO TO-4+ Synthetic All Season is a high quality, premium performance fluid designed to maximize durability and equipment protection in the extreme cold and hot weather temperatures. Its full synthetic formulation combined with high performance additives allows it to deliver outstanding protection over a wider temperature range, while continuing to provide long oil life. Moreover, it offers true year-round performance with excellent shear stability, standing up to the toughest operating conditions for mobile equipment.

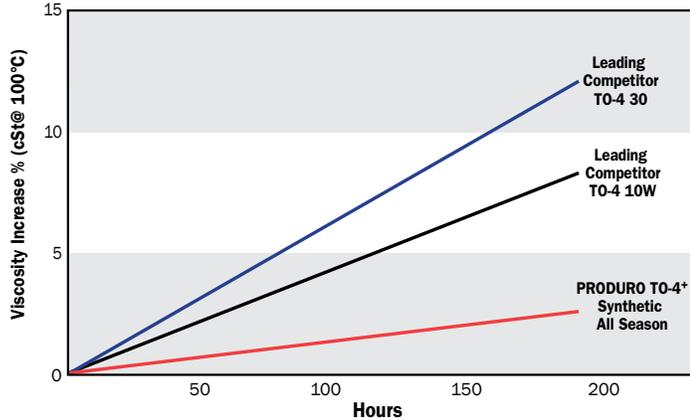
# As good for

# Better Protection with PRODU

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## Simplify inventories

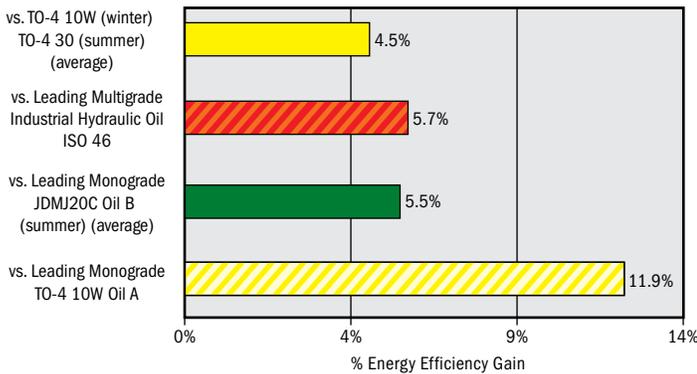
By using PRODURO TO-4+ Synthetic All Season in your transmissions, wet brakes and hydraulics, you can consolidate and use fewer oils. Fewer products and lower inventory levels reduce costs, simplify logistics and cut down on errors.

## Lower maintenance costs and increased productivity

PRODURO TO-4+ Synthetic All Season oil eliminates seasonal change-outs without compromising lubricant performance. In addition, it offers reduced maintenance costs and increased productivity. One key factor is its high viscosity index. This ensures consistent performance over a wide temperature range, delivering fewer cold start-up problems and better protection at elevated operating temperatures compared to TO-4 10Ws.

Additionally, premium additive packages are used for advanced hydraulic pump anti-wear protection. The extremely high after shear VI increases pump efficiency in outdoor applications resulting in lower energy consumption and increased equipment productivity.

## PRODURO TO-4+ Synthetic All Season % Energy Efficiency Gain vs. Competitive Hydraulic Oils



**PRODURO TO-4+ provides better energy efficiency vs. competitive hydraulic oils, given the same amount of work**

Comparison based on Denison T6CM pump-B10 Cartridge, 2000 rpm, 200 bar, 70°C (158°F) and 90°C (194°F)

## PRODURO TO-4+ Synthetic All Season Low Temperature Comparison

Better low temperature protection than a 10W. Caterpillar and PRODURO TO-4+ recommendation in °C:

	CAT TO-4 10W	PRODURO TO-4+ Synthetic All Season
	Minimum Ambient Temperature	
Hydraulics	-20	-35
Hydrostatic Transmissions	-20	-35
Powershift Transmissions	-20	-35
Final Drives On Highway	-30	-38
Final Drives Off Highway	-30	-38

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# RO™ TO-4+.

## PRODURO TO-4+ 10W, 30, 50 and 60 Exceptional Protection



Monograde fluids with Multigrade credentials for added protection. Because they provide reliable performance over a wider range of temperatures, your equipment will

operate longer under optimal viscosity resulting in better protection and less wear.

### PRODURO TO-4+ 10W, 30, 50 and 60

Offer Multigrade Protection

PRODURO TO-4+	Also Meets CAT TO-4
10W	5W
30	15W
50	20W
60	—

### Beats Caterpillar recommendations and the competition – hands down

PRODURO TO-4+ exceeds the “Caterpillar Machines Fluids Recommendations” for Operating Temperature Range (Caterpillar SEBU6250). It also exceeds the published recommendation of major competitors.

## PRODURO TO-4+ XL Synthetic Blend Lo-Temp



Extremely cold operating conditions call for a special transmission and drive train fluid. Not surprisingly, Petro-Canada has your solution. This synthetic blend SAE 0W-20 fluid delivers the same exceptional performance you get with all our PRODURO TO-4+ products. Even better, it protects your equipment down to a bone-chilling -45°C (-49°F).

## PRODURO FD-1 Oils



### PRODURO FD-1 60 and PRODURO FD-1

**Synthetic** are Caterpillar FD-1 type lubricants that provide improved gear and bearing life in final drives and axles. However, they should not be used in compartments containing friction material unless an FD-1 type of product is

specified. These products deliver improved extreme-pressure (EP) performance, extended drain intervals, rust and corrosion protection, and advanced protection from foaming. In addition, PRODURO FD-1 Synthetic’s advanced base oil combination allows it to provide enhanced low-temperature performance.



m line.



**C**ontrary to popular belief, not all TO-4 transmission and drive train fluids are created equal.

Of course, they should all meet Caterpillar's TO-4 requirements since that's important to protect your equipment warranty. But is just meeting minimum standards enough? Shouldn't you expect more from your lubricants?

At Petro-Canada, we are beyond today's standards, which is why you get a whole lot more with our PRODURO TO-4+ fluids. Benefits like longer equipment life, less downtime and lower operating costs.

PRODURO TO-4+ oils go beyond conventional TO-4 fluids. And these exceptional lubricants exceed the tough requirements of Caterpillar TO-4, Komatsu Micro-Clutch and the legacy Allison C-4 performance specifications. In the long run, you lower your operating costs and save money.

## Delivering Tangible Savings Solutions

Our promise is as dependable as our products - we provide demonstrated customer savings as proven by our Tangible Savings Solutions.



**Beyond today's standards.™**

# Our No-Nonsense Lubricants Warranty

“Petro-Canada will repair damaged equipment, or replace damaged equipment parts resulting from a failure due to defects of the Petro-Canada lubricant, as long as the lubricant is used in accordance with your equipment manufacturer’s and our recommendations.”

**It’s more than just a warranty. It’s a commitment.**



To place an order, please call a Customer Order Management Representative at:

- Canada** (English) ..... Phone 1-800-268-5850
- (French) ..... Phone 1-800-576-1686
- United States** ..... Phone 1-877-730-2369
- Latin America** ..... Phone +1-416-730-2369
- Europe** ..... Phone +1-416-730-2389
- Asia** ..... Phone +1-416-730-2372
- China** ..... Phone +86 (21) 6362-0066

**You can also e-mail us at** [lubecsr@suncor.com](mailto:lubecsr@suncor.com)

To learn more about how Petro-Canada lubricants, specialty fluids, oils and greases can help maximize your equipment performance, savings and productivity, please contact us at:

- North America** ..... Phone 1-866-335-3369
- Europe** ..... Phone +44 (0) 121-781-7264
- Germany** ..... Phone +49 (0) 201-726-2913
- Latin America** ..... Phone +1-416-730-2369
- Asia** ..... Phone +1-416-730-2372
- China** ..... Phone +86 (21) 6362-0066
- E-mail** ..... [sales@suncor.com](mailto:sales@suncor.com)

**Visit us on the web at** [lubricants.petro-canada.ca](http://lubricants.petro-canada.ca)

