PRO-SPEC® IV+

SYNTHETIC BLEND

Model shown may include optional eq

TEXAS REFINERY CORP OF CANADA, LIMITED

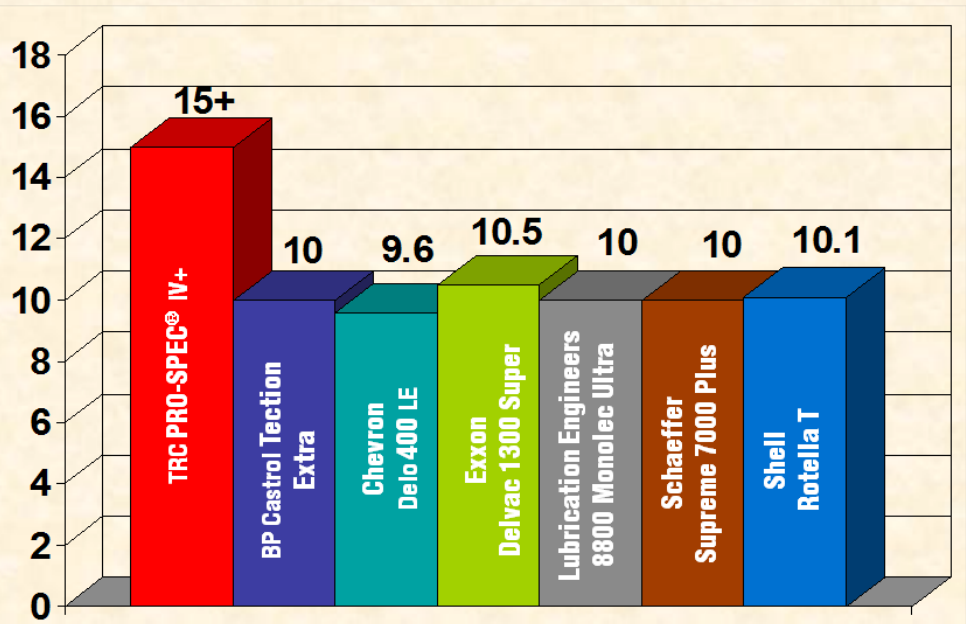
86 Years of world-class manufacturing experience has enabled Texas Refinery Corp. to develop the most robust Total Base Number in the industry, miles ahead of other CJ-4 oils on the market . . . introducing PRO-SPEC® IV+ SYNTHETIC BLEND with a 15+ TBN!

This new, ground-breaking technology formulated into PRO-SPEC® IV+ SYNTHETIC BLEND provides you with **one** engine oil to protect on-highway low emission diesel engines with after treatment devices, pre-2007 diesel engines, as well as off-road engines operating on 500 ppm sulfur diesel fuel. PRO-SPEC® IV+ SYNTHETIC BLEND is a new generation engine oil that provides emission system durability, prevents catalyst poisoning and particulate filter blocking, while at the same time controls soot thickening, oil consumption and wear prevalent in EGR engines.

Low sulfur diesel (15ppm) used in on-highway engines has led many in the industry to believe TBN is not as important as it was before, due to less sulfur in the fuel. But with increased exhaust gases that are circulated back into the engine, Texas Refinery Corp. believes the TBN, and more importantly TBN retention, is just as critical due to the increase of acidity in the EGR process.

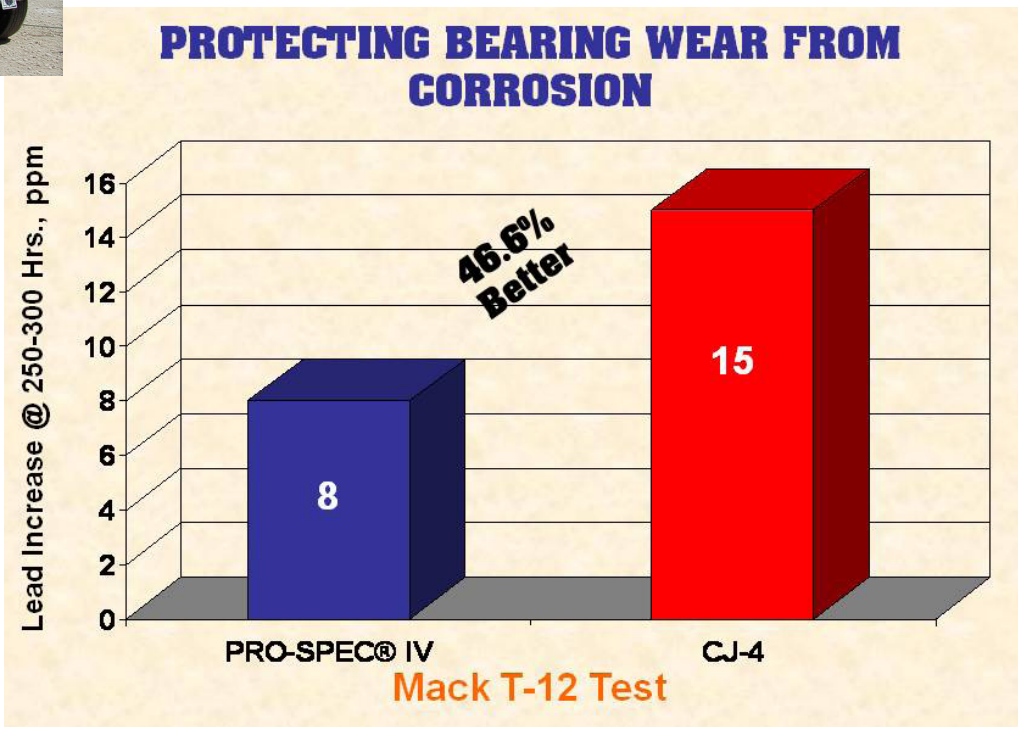
The 15+ TBN formulated in PRO-SPEC® IV+ SYNTHETIC BLEND is **T**he **R**ight **C**hoice, because let's face it . . . when your equipment is down, so is your cash flow.

PRO-SPEC® IV+'s TBN, and TBN Retention, is the Most Robust in the Industry

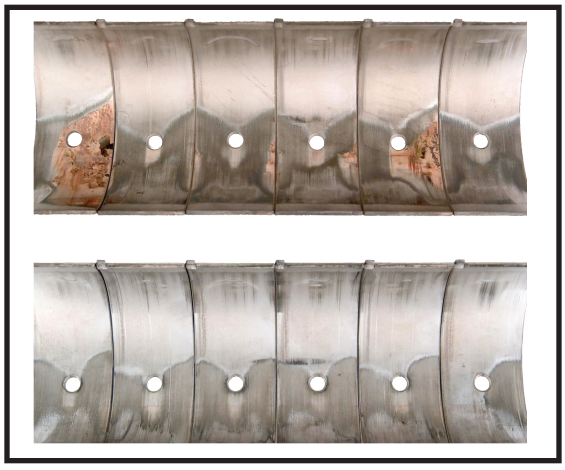


(Above oils listed as CJ-4 on American Petroleum Institute's website. Total Base Numbers as listed on company's website)

Controlling Corrosive Bearing Wear Enables You To Run Extended Drain Intervals With Pro-Spec® IV+



The MACK T-12 : A New Engine Test, 300 hours in length, used to measure the ability of an oil to protect against cylinder wear, soot thickening, bearing corrosion and oxidation at high operating temperatures and high EGR rates.



Competitive CJ-4 Oil

PRO-SPEC® IV+ SYNTHETIC BLEND

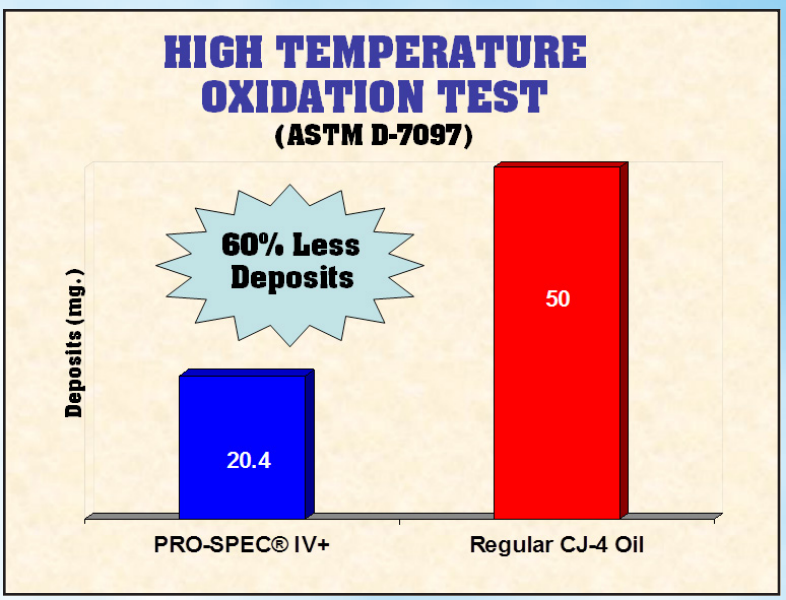
PRO-SPEC® IV+ SYNTHETIC BLEND offers the most advanced protection against corrosive wear in rod bearings

PRO-SPEC® IV+ provides oxidation protection not found in other CJ-4 oils . . .

60% Better Protection

The operating conditions of your engine are more extreme than they were in the past, with much higher temperatures placing demands on the oil. As temperatures rise, the process of oxidation can begin to cause problems for you, unless you are using PRO-SPEC® IV+ SYNTHETIC BLEND Engine Oil. Less oxidation means less deposits in your engine, longer drain intervals and more time for your equipment to make money.

Higher peak cylinder temperatures are prevalent in EGR engines, causing the need for improved oxidation resistance in your oil.



Oxidation Progression:

Darkening of oil

↓

Insoluble Sludge

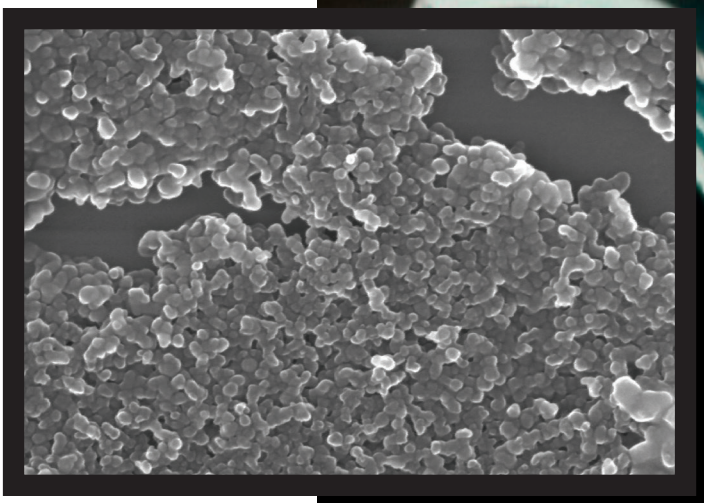
↓

Corrosive Organic Acids

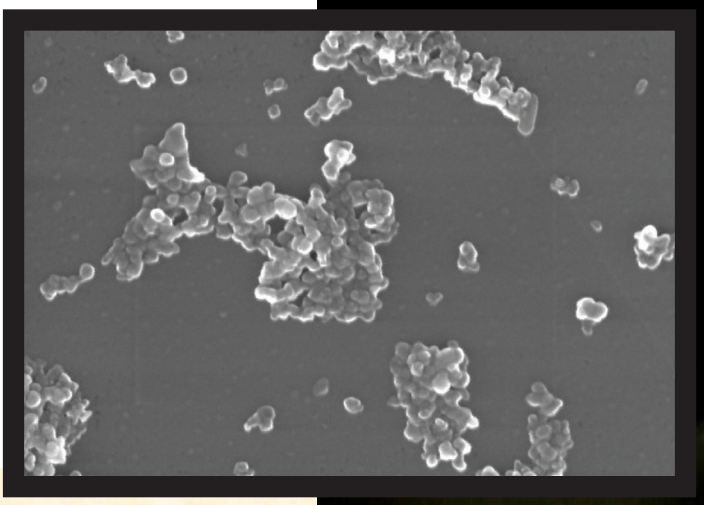
↓

Oil Thickening, Varnish and Gum Deposits on Pistons

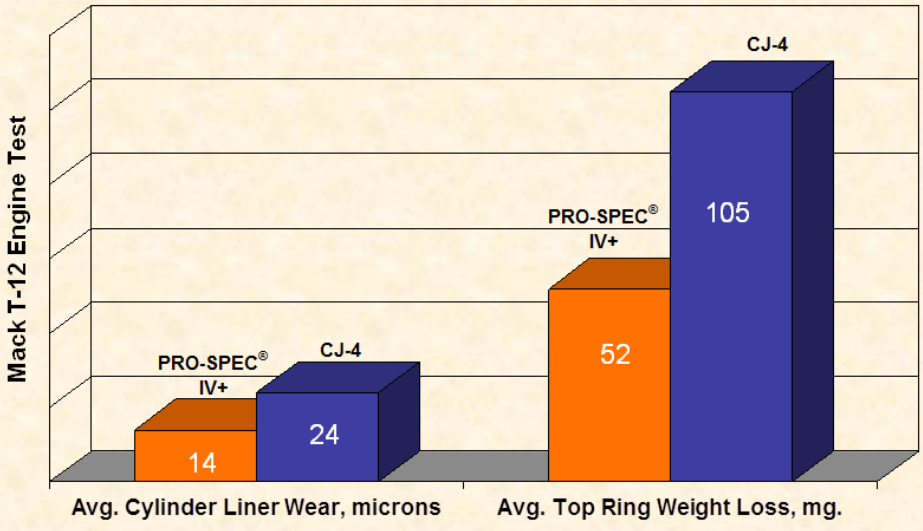
Exhaust Gas Recirculation engines generate high levels of soot, and if the engine oil doesn't disperse it well, the soot forms a fused mass that leads to abrasive wear, oil consumption and premature engine failure



PRO-SPEC® IV+ SYNTHETIC BLEND is formulated with powerful dispersant chemistry to keep soot dispersed into finer particles, which results in reduced oil thickening and improved protection against abrasive wear.

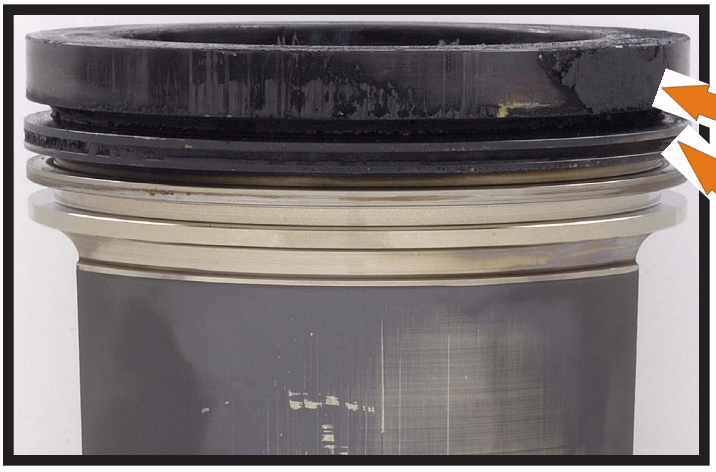


EXCEPTIONAL WEAR PROTECTION



PRO-SPEC® IV+ provides wear protection for your engines against high EGR rates and excess soot generation

PRO-SPEC® IV+ results in the Caterpillar C-13 Test confirms less deposits formed under the same engine test conditions



Other CJ-4 Oil

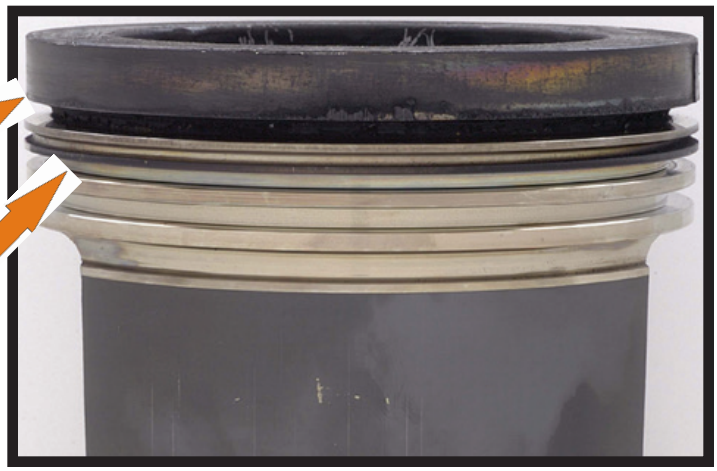
Heavy carbon formation in crown land

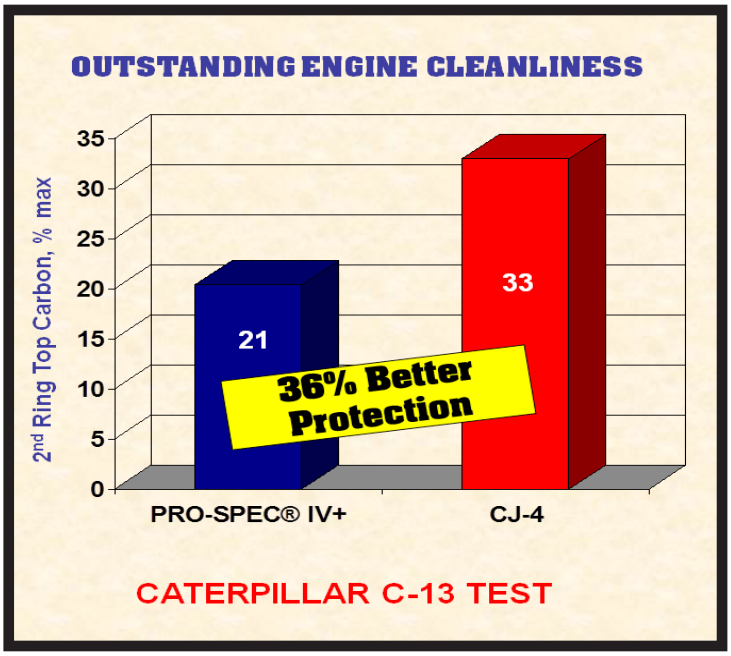
Carbon Deposits in grooves of piston

PRO-SPEC IV+ SYNTHETIC BLEND

Crown Land virtually free from heavy carbon

Little to no carbon in grooves of piston





PRO-SPEC® IV+ provides excellent engine cleanliness to minimize your oil consumption and protect exhaust after treatment systems.

Clean Turbochargers help maintain horse power and can yield better responsiveness and acceleration

CJ-4 APPROVED OILS

Company	Product	Total Base Number
BP Castrol	Tection Extra	10.0
Chevron Texaco	Delo 400 LE	9.6
Conoco	Fleet Supreme EC	8.4
ESSO Canada	XD-3 Extra	8.6
Exxon Mobil	Delvac 1300 Super	10.5
Lubrication Engineers	8800 Monolec Ultra	10.0
Pennzoil	Long Life Gold	10.6
Petro - Canada	Duron-E	8.3
Petro-Canada	Duron-E Synthetic	10.3
Schaeffer	Supreme 7000 Plus	10.0
Shell	Rotella T	10.1
Texas Refinery Corp. of Canada Limited	Pro-Spec IV+	**15.0+**

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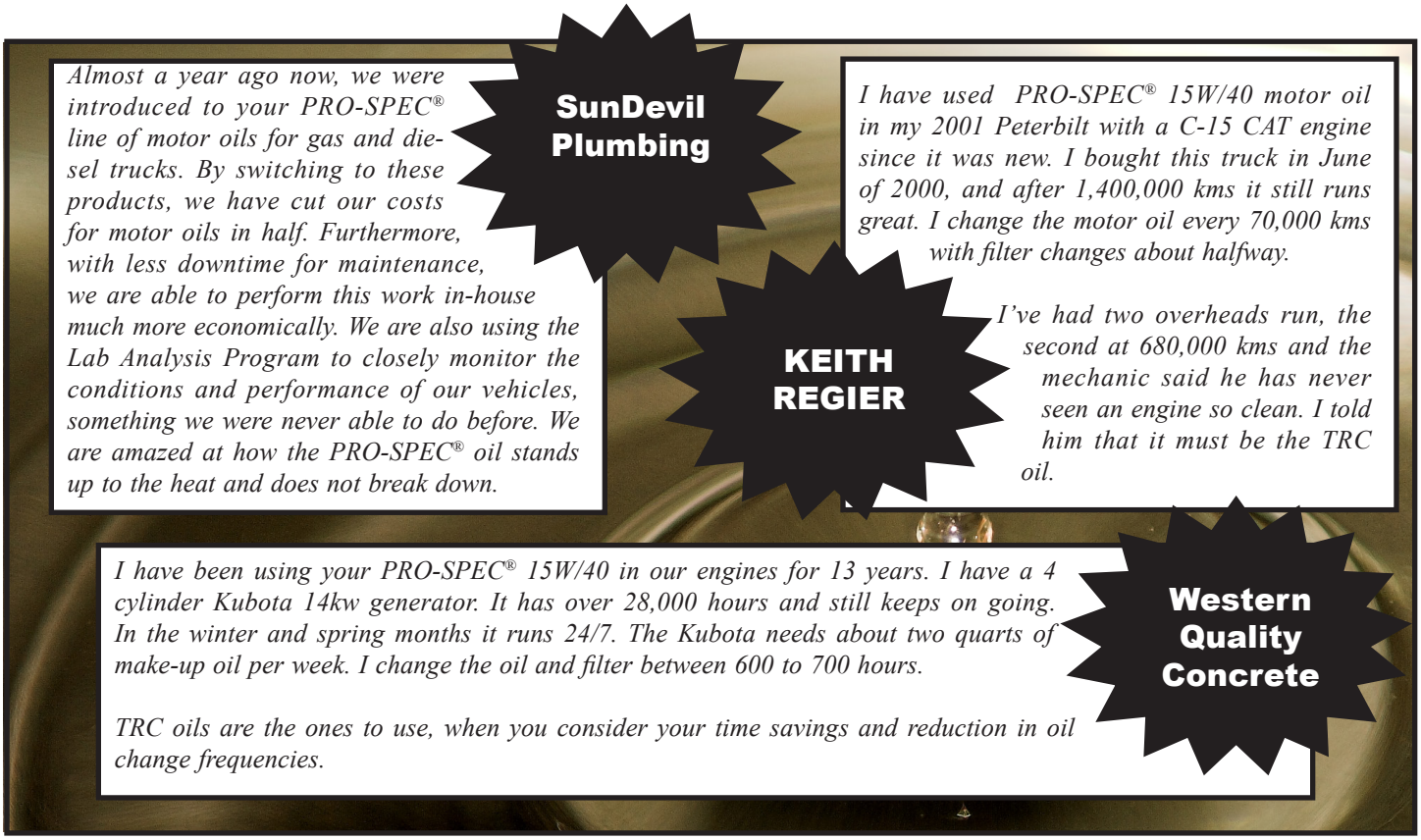

SPECIFICATIONS

Meets and/or exceeds MIL-L-2104B, MIL-L-2104C, MIL-L-2104D, MIL-L-2104E, MIL-L-46152C, MIL-L-46152D, MIL-L-46152E, CID AA 52039, Caterpillar, Caterpillar TO-2, Caterpillar ECF-3, Cummins, Cummins CES 20071, Cummins CES 20076, CES 20077, CES-20078, CES 20081, Detroil Diesel, Power Guard 93K214, Power Guard 93K217, Power Guard 93K218, Mack EO-H, Mack EO-J, Mack EO-K, Mack EO-K/2, Mack EO-L, Mack EO-M, Mack EO-M Plus, Mack EO-N, Mack EO-N Premium Plus, Mack EO-N Premium Plus 03, Mack EO-O Premium Plus 07, Navistar, Allis Chalmers, Series 3, GM6048M, GM6085M, GM6094M, Ford M2C153E, Ford M2C171B, ACEA E7/E5/E3/B3/A3, Mercedes Benz MB 228.3, MTU Type II, Volvo VDS-2, Volvo VDS-3, Volvo VDS-4, Global DHD-1, Chrysler MS-6395-D, Pro-Spec® IV+ 15W/40 is Allison C4 Approved, A.P.I. CD, CDII, CE, CF-4, CG-4, CH-4, CI-4, CJ-4, SD, SE, SF, SG, SH, SJ, SL, SM.

ASTM TEST METHOD	TESTS	10W/30	15W/40
	Product Code	#6732	#6728
D287	API Gravity	27/29	27/29
D287	Specific Gravity at 60°F, Typical	.87	.88
D-92	Flash Point, °F, COC, Minimum	400°F (204°C)	400°F. (204°C.)
D-97	Pour Point, Typical	-42°F (-41°C)	-35°F. (-37°C.)
D-5293	Viscosity @ -25°C, Cold Cranking Simulator cP	- - -	7000 max.
D-5293	Viscosity @ -30°C, Cold Cranking Simulator cP	7000 max.	- - -
D-4684	Viscosity @ -20°C, Mini Rotor Viscosimeter-TP1 cP	- - -	25,000
D-4684	Viscosity @ -25°C, Mini Rotor Viscosimeter-TP1 cP	21,500	- - -
D-446	Viscosity @ 100°C, cSt, Typical	12.0	15.5
D-446	Viscosity @ 40°C, cSt, Typical	85.0	119.0
D-2270	Viscosity Index	150	150
D-847	Sulfated Ash, Wt. %, Maximum	0.96%	0.96%
D-2896	Total Base Number, mg KOH/g	15+	15+
D-664	Total Acid Number, mg KOH/g	2.5	2.5
D-892	Foam Tendency/Stability:		
	Sequence I	0/0	0/0
	Sequence II	0/0	0/0
	Sequence III	0/0	0/0
	Calcium, Wt. %, Typical	0.13	0.13
	Zinc, Wt. %, Typical	0.13	0.13
	Nitrogen, Wt. %, Typical	0.23	0.23
	Magnesium Wt. %, Typical	0.09	0.09

CANADA
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