



DURON* 15W-40 and DURON* XL Synthetic Blend 15W-40 Meet CI-4 Plus Diesel Engine Oil Specification

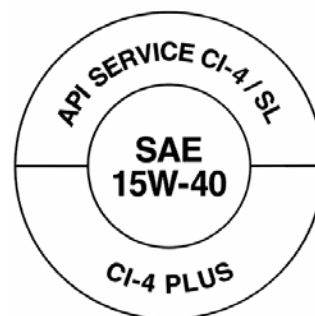
Petro-Canada's DURON* 15W-40 and DURON* XL Synthetic Blend 15W-40 heavy duty engine oils have achieved the American Petroleum Institute's (API) CI-4 Plus specification. CI-4 Plus is an update to the previous CI-4 standard and requires heavy duty engine oils to provide improved shear stability and soot-handling abilities for low-emission engines. This new standard comes into effect September 1, 2004.

CI-4 Plus vs. CI-4

The API CI-4 Plus specification is a supplement to the API CI-4 specification introduced in 2002. While API CI-4 was developed for low emissions engines, the CI-4 Plus supplement pushes the envelope even further in response to OEMs' increased need for higher quality engine oils.

What is the HT difference?

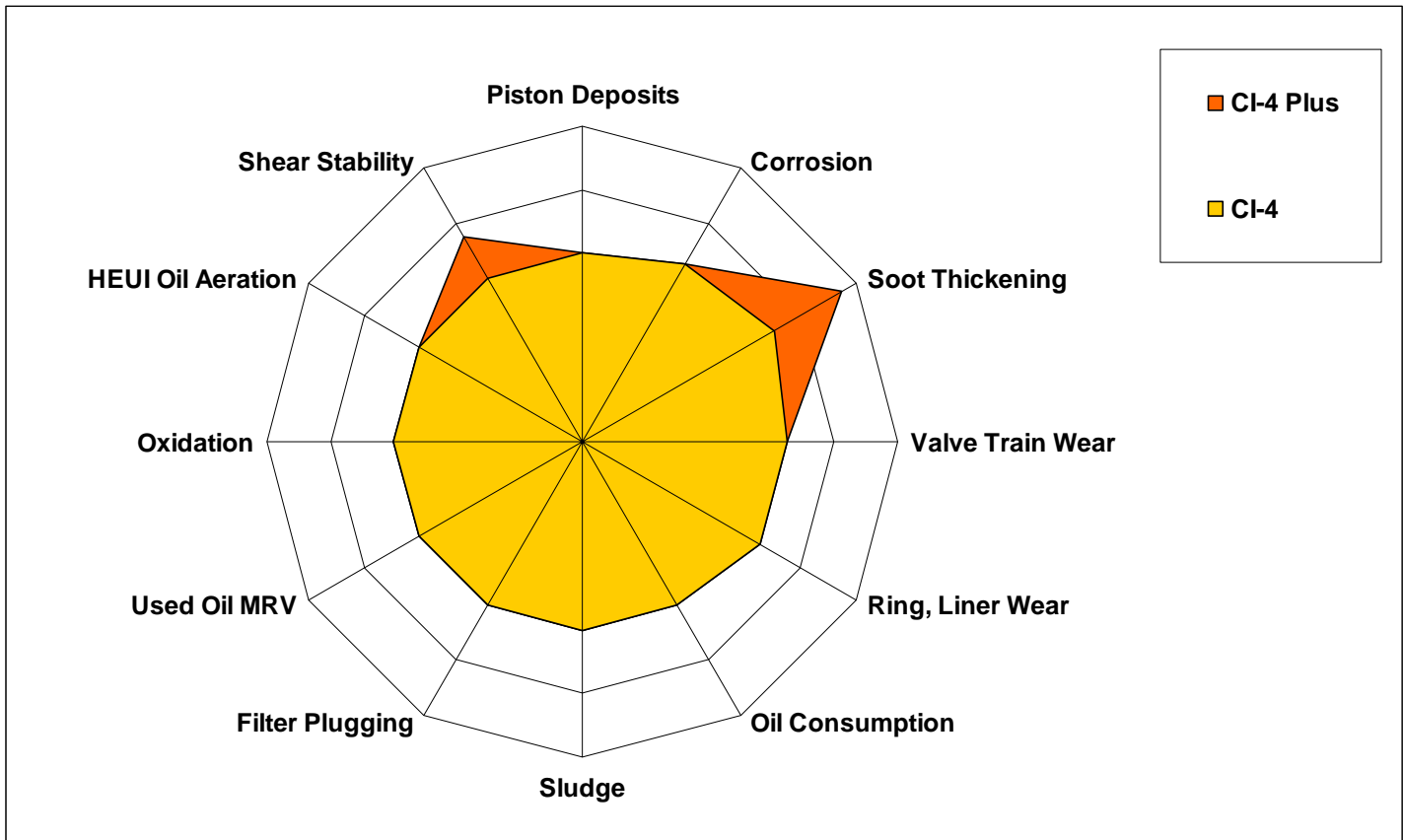
Petro-Canada starts with the patented HT purity process to produce water-white, 99.9% pure base oils. The result is a range of lubricants, specialty fluids and greases that deliver maximum performance for our customers.



Improved Engine Oil Performance. With CI-4 Plus, the shear stability requirement is tripled relative to CI-4. The primary effect of this is to exclude products with inadequate shear stability protection. Typically HDEOs formulated with Group I base stocks. **Advantage DURON.**

CI-4 Plus also calls for improvements in soot thickening. There is a new Mack T-11 engine test. This is an improvement over the CI-4 Mack T-8E test since the T-11 uses cooled EGR technology as used in commercial low emission Mack engines. In this test, soot thickening is measured at 6% soot load compared to 4.8% soot in the Mack T-8E. Engine builders also believe that soot from EGR engines is more aggressive & thickens more than that from non-EGR engines. The soot thickening is measured from the base of the sheared oil viscosity so the new shear test makes it more difficult for formulators to get around the test by having poor shear stability.

Advantage DURON.



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