

## Product Information Bulletin

### April 2018 - New Natural Gas Engine Oil Specification

A new mobile natural gas engine oil performance specification has been introduced for stoichiometric combustion Cummins Westport mid-range and heavy-duty engines. This new specification, referred to as Cummins Engineering Standard (CES) 20092, will provide significantly improved oxidation and thermal stability compared to previous natural gas oils.

Cummins Westport (CWI) natural gas engines require specially formulated natural gas engine oil, which has different properties than most diesel engine oil. In addition to the new CES 20092, there are two natural gas engine oil specifications for use with CWI engines: CES 20074 oils, which are recommended for lean burn engines and CES 20085 oils, which are allowed but not recommended, for engines using stoichiometric combustion. For more information on CES 20074 and CES 20085 oil specifications, please refer to Cummins Westport [May 2016 Product Information Bulletin](#).

#### What is the value of using CES 20092 oils vs. CES 20085 oils?

All CWI engines using stoichiometric combustion are compatible with CES 20092 oils. These platforms will benefit from a transition to CES 20092 oils, which require a more modern oil additive system than previously used for CES 20074 or CES 20085 oils. The new specification requires a much stronger antioxidant combination to provide protection at the high temperatures experienced in modern natural gas engines. The range of allowable ash levels for CES 20092 oils (0.7-0.9%) is similar to the CES 20085 specification.

Lean burn legacy engines should continue to use CES 20074 oils until further notice. See the reference table below.

Engine Model	Natural Gas Engine Oil Specifications		
	CES 20092	CES 20085	CES 20074
ISX12N ISX12 G L9N ISL G ISL G Near Zero B6.7N ISB6.7 G	✓ <b>Recommended</b>	Compatible.  Transition to CES 20092 for optimum performance	Compatible, but not recommended
L Gas Plus C Gas Plus C8.3G B Gas Plus B Gas Plus Intl. B5.9G B5.9LPG B LPG Plus	Not recommended	Not recommended	✓ <b>Recommended</b>



**Is CES 20092 backwards compatible?**

CES 20092 is completely backwards compatible with CES 20085. All customers using CES 20085 oils should plan to transition to CES 20092 oils. Customers using stoichiometric burn engines with CES 20074 oils should also transition to CES 20092.

**Will this new oil category have an effect on my oil analysis?**

Considering new additives will be required to qualify oils for CES 20092 performance, oil analysis will be impacted and a new baseline oil sample should be submitted to your used oil analysis lab.

**How should I change over my bulk supply tank?**

It is recommended that customers run their bulk tanks to the lowest volume possible when converting over to the new specification of oil. This will allow them to take full advantage of the improved properties, which include better oxidation performance and durability.

Oil Registration lists including approved CES 20092, 20085, and CES 20074 oils, are available on Cummins QuickServe Online (QSOL) under Service Tools. Customers and oil suppliers can sign up for a QuickServe Online account by going to [quickservice.cummins.com](http://quickservice.cummins.com).

Consult your owner's manual, QSOL, or your Cummins or Cummins Westport representative for more information on natural gas engine oils and oil drain intervals.

