

General Information

Many factors affect the type of engine oil that **must** be utilized for an engine, such as the use of aftertreatment, exhaust gas recirculation (EGR), and fuel quality.

Multiple oil categories can be allowed for the same diesel engine, however shortened oil drain intervals can be required. Diesel engines equipped with aftertreatment systems require oils with lower sulfated ash content.

Global fuel quality plays a significant role in selecting the appropriate oil. For locations with fuel sulfur > 15 ppm and **not** using aftertreatment, do **not** use oil meeting Cummins® Engineering Standard (CES) 20081, CES 20086, CES 20087, as the starting total base number (TBN) is typically lower and may require reduced oil drain intervals. For fuel sulfur > 15 ppm CES 20078 is recommended.

Requirements

Utilize Table 1 to determine what CES approved oil to use for diesel engines.

Refer to Procedure 378-003 in Section 4 (</qs3/pubsys2/xml/en/procedures/00/00-378-003.html>) for a list of the closest American Petroleum Institute (API) and International oil classification.

Note : CES 20086 is recommended for use anywhere CES 20081 was previously recommended. CES 20086 oil can be used in any diesel engines that are running on ULSD fuel.

Global CES Oil Recommendation Based on Engine/Aftertreatment Configuration

CES	Without EGR, Without Aftertreatment	With EGR, Without Aftertreatment	With Aftertreatment
CES 20075	Not permitted	Not permitted	Not permitted
CES 20071 CES 20076 CES 20077	Permitted	Reduced Oil Drain Interval	Not permitted
CES 20078	Permitted	Permitted	Permitted for some engines ^{2,3}
CES 20081	Permitted ¹	Permitted ¹	Permitted ¹
CES 20086	Permitted ¹	Permitted ¹	Recommended ¹
CES 20087	Not Permitted	Not Permitted	Permitted for some engines ^{1,2}
CES 20088	Permitted for some engines ²	Permitted for some engines ²	Permitted for some engines ^{2,3}

Global CES Oil Recommendation Based on Engine/Aftertreatment Configuration

CES	Without EGR, Without Aftertreatment	With EGR, Without Aftertreatment	With Aftertreatment
<ol style="list-style-type: none"> 1. Ultra-Low Sulfur Diesel (ULSD) is required. 2. Reference Procedure 018-003 (Lubricating Oil Recommendations and Specifications) in the Owners/Operation and Maintenance Manual for further information on engines approved to this CES standard. 3. CES 20078 and CES 20088 are not permitted on engines using diesel particulate filter (DPF) aftertreatment. 			

A list of oils that meet the appropriate CES for your engine can be obtained from your local Cummins® distributor or can be found on QuickServe™ Online at:

https://quickserve.cummins.com/qs3/qsol/service/serviceproducts/oil_registration.html

Re-Refined Oils

New commercially available re-refined or recycled engine oils can be used **only** if the oil brand name and viscosity grade are found on the QuickServe™ oil registration list. Used reclaimed oils OR new re-refined/recycled engine oils **not** found on the oil registration lists should never be used.

Friction Modifiers

Engine oil that contains friction modifiers should **not** be used unless the oil brand name and viscosity grade are found on the QuickServe™ oil registration list. Friction modifiers can compete with the anti-wear additives in your engine oil to compromise wear performance.

Break-In Oils

Special break-in oils are **not** recommended for use in any Cummins ® engine. These oils are **not** designed to meet our wear standards and may negatively affect durability.

Top-Treat or Aftermarket Oil Additives

Cummins® neither approves or disapproves of any additives **not** manufactured or sold by Cummins Inc. or its subsidiaries. Engine malfunction or performance problems, which result from the use of such additives, are **not** warrantable by Cummins Inc.

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