



STAR ONLINE PUBLICATION



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Symptom/Vehicle Issue: Guidelines For The Use Of Alternative Diesel Fuels.

Discussion: With the ever-increasing price of fuel, there has been a sharp increase in the use of cheaper alternative diesel fuels. While many of the manufacturers of these alternative fuels state that the fuel is compatible with all diesel engines, many have **NOT** been approved for use in any FCA US LLC diesel applications including the 6.7L Cummins® Turbo Diesel Engine.

The following is information from the owner's manual regarding current fuel requirements. Diesel fuel sources **MUST** meet these requirements to be approved for use in FCA US LLC diesel equipped vehicles.

6.7L Cummins® Turbo Diesel, Fuel Requirements:

The Cummins® Turbo Diesel engine has been developed to take advantage of the high energy content and generally lower cost Number 2 Ultra Low Sulfur Diesel Fuel or Number 2 Ultra Low Sulfur Climatized Diesel Fuels. Experience has shown that it also operates on Number 1 Ultra Low Sulfur Diesel Fuels or other fuels **within specification**.

Special Notes:

- A **maximum** blend of **20% biodiesel** meeting ASTM specification D-7467 may be used with your Cummins® diesel engine. (Models configured with B20 Capability.)
- In addition, commercially available fuel additives are not necessary for the proper operation of your Cummins® diesel engine. However, if seasonally adjusted fuel is not available and you are operating below 20°F (-6°C), Mopar® Premium Diesel Fuel Treatment (or equivalent) may be beneficial to avoid fuel gelling.
- Number 1 Ultra Low Sulfur Diesel Fuel should only be used where extended arctic conditions (0°F or -18°C) exist.

This document does not authorize warranty repairs. This communication documents a record of past experiences. STAR Online does not provide any conclusions about what is wrong with the vehicle. Rather, it captures all previous cases known that appear to be similar or related to the vehicle symptom / condition. You are the expert, and you are responsible for deciding on the appropriate course of action.

Contact STAR Center, or your Technical Assistance Center Via TechConnect, eCONTACT or Service Library entry if no solution is found.



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Fuel Requirements For All Other FCA US LLC Diesel Engine Applications:

These diesel engines have been developed to take advantage of the high energy content and generally lower cost Number 2 Ultra Low Sulfur diesel fuel or Number 2 Ultra Low Sulfur Climatized diesel fuels.

Special Notes:

- A maximum blend of 5% biodiesel meeting ASTM specification D-975 may be used with your diesel engine without any adjustments to regular service schedules. Please also see additional Biodiesel Fuel Requirement notes below
- Commercially available fuel additives are not necessary for the proper operation of your diesel engine.
- Number 1 Ultra Low Sulfur diesel fuel should only be used where extended arctic conditions (-10°F or -23°C) exist.

Additional Biodiesel Fuel Requirement Notes and Cautions: (Applies to all FCA US LLC Diesel Applications including the 6.7L):

- A maximum blend of 5% biodiesel meeting ASTM specification D975 is recommended for use with your diesel engine. If frequent operation with Biodiesel blends that are between 6% and 20% (B6–B20) is desired, the maintenance schedule is subject to shorter intervals.
- The oil and filter change along with fuel filter replacement is subject to shorter intervals when operating your engine on biodiesel greater than 5%. Do not use biodiesel greater than 20%.
- For regular use of biodiesel blends between 6% and 20% (B6–B20) it is important that you understand and comply with these requirements. For additional information, please consult the maintenance section of the owner's manual.

CAUTIONS:

- Failure to comply with Oil Change requirements for vehicles operating on biodiesel blends between 6% and 20% (B6–B20) will result in premature engine wear. Such wear is not covered by the New Vehicle Limited Warranty.
- Biodiesel is a fuel produced from renewable resources typically derived from animal fat, rapeseed oil (Rapeseed Methyl Ester (RME) base), or soybean oil (Soy Methyl Ester (SME or SOME) base).
- Biodiesel fuel has inherent limitations which require that you understand and adhere to the following requirements if you use blends of Biodiesel between 6% and 20% (B6–B20). There are no unique restrictions for the use of B5.
- Use of blends greater than 20% is not approved. Use of blends greater than 20% can result in engine damage. Such damage is not covered by the New Vehicle Limited Warranty.

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- In the event that the vehicle is filled with biodiesel and not used for more than a month, the fuel should either be used up by driving (up to quarter tank) and filled with standard diesel blends with less than 5% that is normally available. This will help prevent the fuel filter clogging and potential damage to the fuel injection system due to degraded biodiesel, which is not covered by the New Vehicle Limited Warranty.

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