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## **DETROIT™ RENEWABLE DIESEL POLICY:**

### **WHAT IS RENEWABLE DIESEL?**

The term Renewable Diesel (R100) refers to an advanced biofuel consisting of fully hydrogenated medium to long chain paraffinic and branched hydrocarbons and is typically made from vegetable oil, animal fats, used cooking oil, or greases. This fuel is typically created by a process called hydrotreating and isomerization and is generally blended at a rate of 1-100% (R1-R100) by total volume with petroleum-based diesel.

Renewable Diesel is not “Biodiesel”. Renewable Diesel (R100/BTL/HVO) is an advanced biofuel that can be made from the same renewable feedstocks as biodiesel. Renewable Diesel offers superior stability and is generally produced to a higher quality compared to biodiesel.

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### **ENGINE COMPATIBILITY:**

#### **DD5, DD8, DD13, DD15, DD16 Engines:**

- Renewable Diesel (R100) is compatible provided that it meets the specifications listed in this document.
  - Renewable Diesel can be blended with diesel fuel in any blend ratio (R1 to R99) provided that it meets the specifications listed in this document.
  - Renewable Diesel can be blended with up to 5% biodiesel (B5/R95) provided that the finished fuel meets the specifications listed in this document.
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<sup>1</sup> Requirements should be confirmed by fuel supplier; always monitor the Certificate of Analysis from each batch of fuel.

**RENEWABLE DIESEL FUEL QUALITY REQUIREMENTS<sup>1</sup>:**

- Renewable Diesel blends up to 100% must be produced to meet the specifications of EN15940 prior to blending with petroleum or biodiesel.
- EN15940 fuel will meet ASTM D975 standards and may be marketed as either in North America.
- Renewable Diesel blends with a maximum concentration of 5% biodiesel (B5) must meet ASTM D975, or CAN/GCSB- 3.520 at a minimum, and DETROIT™ requirements detailed at DDC-SVC-BRO-120.

Detroit Diesel recommends the use of Top Tier™ Diesel Fuel for use in DETROIT™ Engines. This standard is a voluntary retailer program that has supplemental requirements that exceed ASTM standards, and also has provisions for quality control of the fuel distribution and storage. Look for the Top Tier™ logo at retailers, as this diesel fuel will generally meet all Detroit Diesel recommendations.



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**WARRANTY IMPLICATIONS:**

There are no added warranty implications with the use of this fuel.

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**ADDITIONAL INFORMATION:**

Fuel Supplier:

- Confirm with your fuel supplier that the fuels they produce conform to the EN15940 fuel standard.

Fuel Filter Plugging:

- There are no additional cautions.

Storage & Oxidative Stability:

- Renewable diesel is very suitable for long term storage. There are no additional cautions.

Compatibility with Aftertreatment Systems:

- Renewable diesel generally does not contain alkali metals and should not affect aftertreatment performance. There are no additional cautions.

Cold Weather Performance:

- Cloud points of -30° C are possible with renewable diesel. There are no additional cautions.

Water Contamination:

- There are no additional cautions.

Microorganism Growth:

- There are no additional cautions.

Engine Oil Analysis:

- There are no additional cautions.