



# EPP Rapid Research

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## **EPP Rapid Research Manufacturer Warrantees of Equipment Running Biodiesel City of Seattle, WA**

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### **Request:**

(City of Seattle, Jason Edens) Explore manufacturer warrantees for equipment using biodiesel fuel.

### **Key Findings:**

Manufacturers generally do not warrantee equipment for fuel related problems, regardless of what type of fuel is used. Diesel engine manufacturers warranty their engines based on materials and workmanship. In general, manufacturers don't "void" their warrantees if biodiesel is used. Any non-fuel related issue is still covered since fuel type has no effect on these issues. Some manufacturers are openly supportive of biodiesel use in their equipment. Many manufacturers currently support up to 5% biodiesel if the biodiesel is ASTM certified, although, manufacturer recommendations vary from manufacturer to manufacturer.

Engine warranties are not typically based on vintage of engine. Warranties are generally good for two years on new engines.

### **Warranty Information from Manufacturers:**

#### **Caterpillar**

"Biodiesel meeting the requirements listed in Caterpillar's biodiesel specification or, meeting either ASTM 6751 or DIN 51606, are acceptable. They may also be blended in any percentage with an accepted fuel, provided the diesel meets the requirements outlined in Table 6 prior to blending." For other specified engines: "...biodiesel..may be blended..at a maximum of 5%." "The use of biodiesel fuels does not affect Caterpillar's materials and workmanship warranty.

[http://www.biodiesel.org/pdf\\_files/OEM%20Statements/2005\\_OEM\\_CatVersion9.pdf](http://www.biodiesel.org/pdf_files/OEM%20Statements/2005_OEM_CatVersion9.pdf)

#### **Cummins**

"Cummins neither approves or disapproves of the use of bio-diesel blends. The use of biodiesel fuel does not affect Cummins materials and workmanship warranty...It is expected that blending up to a 5 percent volume concentration should or most probably will not cause serious problems. B20 is expected to be approved soon according to Cummins representative, Randy Wilson from Renton 425-235-3400.

Position on the Use of Biodiesel Fuels [http://www.biodiesel.org/pdf\\_files/CUMMINS.PDF](http://www.biodiesel.org/pdf_files/CUMMINS.PDF)

#### **Detroit Diesel**

Engine Requirements for biodiesel- Section 5.1.4 (Biodiesel up to B20 is acceptable)

Detroit Diesel "...permits the use of biodiesel derived from virgin soy methyl ester and rapeseed methyl ester when blended up to 20% maximum in diesel fuel.

[http://www.biodiesel.org/pdf\\_files/Detroit%20Diesel%20-20internal%20fuel%20spec%20\(incl.%20biodiesel\).pdf](http://www.biodiesel.org/pdf_files/Detroit%20Diesel%20-20internal%20fuel%20spec%20(incl.%20biodiesel).pdf)

John Deere

Approves the use of up to 5% concentration of soy-based biodiesel fuel, and all diesel equipment is fueled with 2% biodiesel before it leaves the factory.

“Biodiesel Fuel in John Deere Diesel Engines” [http://www.biodiesel.org/pdf\\_files/JDEERE.PDF](http://www.biodiesel.org/pdf_files/JDEERE.PDF)

J.S. Power, Ltd.

Builds and warrants generators using 100% biodiesel.

<http://www.jspower.co.uk/>

### **Additional Resources:**

DaimlerChrysler Approves Use of B20 in 2007 Dodge Ram Pickup Trucks

[http://www.biodiesel.org/resources/pressreleases/file/20060123\\_dcxapprovesb20indodgeram.pdf](http://www.biodiesel.org/resources/pressreleases/file/20060123_dcxapprovesb20indodgeram.pdf)

OEM Warranty Statements and Use of Biodiesel Blends Over 5% (B5)

[http://www.biodiesel.org/pdf\\_files/B5\\_warranty\\_statement\\_32206.pdf](http://www.biodiesel.org/pdf_files/B5_warranty_statement_32206.pdf)

Standards and Warranties

Including OEM statements by: [Case IH](#), [Caterpillar](#), [Cummins](#), [Detroit Diesel](#), [Ford](#), [GM Motors](#), [International](#), [John Deere](#), [Kubota](#), [Mack](#), [Mercedes-Benz](#), [New Holland](#), [UD Trucks/Nissan Diesel](#), [Volkswagen](#) and [Volvo](#)  
[http://www.biodiesel.org/resources/fuelsheets/standards\\_and\\_warranties.shtm](http://www.biodiesel.org/resources/fuelsheets/standards_and_warranties.shtm)

Soy Power Biodiesel Standards and Warranties

<http://www.soypower.net/StandardsAndWarranties.asp>

Vehicle Warranties and Biodiesel

Lists both equipment and auto manufacturers.

[http://www.biodieselnow.com/blogs/general\\_biodiesel/archive/2006/12/17/vehicle-warranties-and-biodiesel.aspx](http://www.biodieselnow.com/blogs/general_biodiesel/archive/2006/12/17/vehicle-warranties-and-biodiesel.aspx)

Volkswagen Extends Warranty Coverage for B5 Biodiesel

[http://www.biodiesel.org/resources/pressreleases/pas/20050318\\_VW\\_B5.pdf](http://www.biodiesel.org/resources/pressreleases/pas/20050318_VW_B5.pdf)

\*\*\*To help disseminate this information and encourage EPP, PPRC will list the summarized results, including contact information, on its website. Please let us know if this is not acceptable\*\*\*