

## AUTOMAKERS' AND ENGINE MANUFACTURERS' POSITIONS OF SUPPORT FOR BIODIESEL BLENDS

Company	Blend Approval	Notes	Reference / Source	Last Updated
<b>Acura</b>	TBA	Honda and Acura are working in tandem to introduce the new i-DTEC clean diesel engine to the North American market, but this is now delayed (see links for delay notification). The i-DTEC engine meets the ultra-stringent U.S. EPA Tier II Bin 5 emission standards without the on-board storage of urea.	<a href="#">Click Here for more Info</a> <a href="#">Click Here for more Info</a>	8/13/2009
<b>Arctic Cat</b>	B20	B20 Approved for use in Arctic Cat twin cylinder diesel ATVs. Biodiesel fuel must meet ASTM D6751 spec.	<a href="#">Click Here for more info</a>	8/13/2009
<b>Audi</b>	B5	Audi has introduced 2 new diesels into the US market in 2009: the Audi A3 TDI Sedan and Audi O7 3.0L TDI SUV.	<a href="#">Click here for more info</a>	8/13/2009

		Audi supports the use of up to B5 biodiesel blends.		
<b>Blue Bird</b>	B5 / B20	Biodiesel blend level approval depends upon school bus model / engine. Those equipped with Cummins engines support B20; those equipped with Ford / GM engines support B5. NBB is working with Bluebird to post biodiesel approval information by model on their website.	<a href="http://www.blue-bird.com/product.aspx">http://www.blue-bird.com/product.aspx</a>	8/13/2009
<b>BMW</b>	B5	BMW has introduced 2 new diesels into the US market in 2009: the BMW X5 xDrive 35d and the BMW 335d sedans. BMW supports the use of up to B5 biodiesel blends.	<a href="#">Click Here for more Info</a>	8/13/2009
<b>Buhler</b>	B20	B20 Approved for use in Buhler 4WD tractors powered by Cummins Tier 3 QSM and QSX engines.	<a href="#">Click here for more info</a>	4/18/2007
<b>Case Construction Equipment</b>	B20/ B5	Biodiesel fuels approved for use must comply with the North American Standard ASTM D6751. Biodiesel should be purchased from a trusted supplier who understands the product and maintains good product quality. Case	<a href="#">Click here for more info</a>	6/11/2008

recommends that you only use biodiesel from BQ 9000 accredited suppliers to maintain the quality and the consistency of the fuel.

**Case IH**

B100/  
B20/B5

Visit [www.caseih.com](http://www.caseih.com) for biodiesel approval levels on specific products and equipment by model

[Click here for more info](#)

1/21/2009

**Caterpillar**

B30 / B20 /  
B5

Tiered biodiesel blend approval structure based on equipment type and model. On-Highway Truck Engines (SEBU6385-07) - See page 31 for biodiesel recommendations. Caterpillar Commercial Diesel Engines Fluids Recommendations (SEBU6251-12) - See page 54. Visit [www.cat.com](http://www.cat.com) for more information.

[Caterpillar Commercial Diesel Engine Fluids Recommendations](#)  
[Caterpillar On Highway Diesel Engine Fluids Recommendations](#)

3/1/2009

**Chrysler LLC** B20 /B5

B5 Factory Fill in place for Dodge Ram. Biodiesel fuel must meet ASTM D6751 or ASTM D7467 and fuel should

[Click here for more info](#)

8/13/2009

be used within 6 months of production.

**Cummins**

B20

B20 Approval is for 2002 and later emissions-compliant On-Highway ISX, ISM, ISL, ISC and ISB engines. B20 is also approved for Off-Highway engines including: QSX, QSM, QSL, QSC, QSB6.7, QSB4.5, QSM Marine, QSM G-Drive. All 2010 Cummins engines will be B20 compliant.

[Click here for more info](#)  
[Click here for info on Cummins 2010 diesel engines](#)

5/4/2009

**Detroit Diesel**

B5

Biodiesel must meet ASTM D6751 and petroleum diesel must meet ASTM D975. Biodiesel should be sourced from a BQ-9000 Accredited Producer. Detroit Diesel is currently conducting research that may allow future B20 acceptance.

[Click here for more info](#)

8/13/2009

**Fairbanks Morse**

B100

B100 approved for use in Opposed Piston (OP) Model 38D 8 1/8 diesel and dual fuel engines for continuous operations. Biodiesel must meet ASTM D6751.

[Click here for more info](#)

2/1/2007

**Ford Motor Co.**

B5

Any recent-model Ford truck with a diesel engine can run

[Click here for more](#)

8/13/2009

on a mixture including up to 5 percent biodiesel (B5), but higher amounts are not recommended at this time. Ford is currently conducting research that may enable future B20 acceptance.

[info](#)  
[Ford 2008-09 Sustainability Report on Biofuels](#)

**Freightliner** B5

Freightliner is a division of Daimler Trucks North America. NBB is working with Freightliner to have a formal biodiesel statement posted on their website.

[www.daimler-trucksnorthamerica.com](http://www.daimler-trucksnorthamerica.com)

8/13/2009

**General Motors**

B20 - B5

B20 SEO available to fleets on the 6.6L Duramax diesel engine in the 2009 Chevy Silverado Heavy Duty and GM Sierra Heavy Duty One Ton Pickup, as well as on the Chevy Express and GM Savana Commercial Cutaway Vans with Duramax diesel engines

[Click here for more info Example Order Guide Click here for more info](#)

8/13/2009

**Honda**

TBA

Honda and Acura are working in tandem to introduce the new i-DTEC clean diesel engine to the North American market, but this is now delayed (see links for delay

[Click here for more info Click here for more info](#)

8/13/2009

notification). The i-DTEC engine meets the ultra-stringent U.S. EPA Tier II Bin 5 emission standards without the on-board storage of urea.

**Hyundai**

TBA

A diesel powertrain is being developed for the recently introduced Hyundai Veracruz SUV with launch expected in 2009 - 2010. Biodiesel blend approval level has not yet been announced.

[Click here for more info](#)

6/5/2007

**International / Navistar**

B5 / B20

Navistar unconditionally warrants use of biodiesel blends up to and including B5 blends meeting the ASTM D975-08a standard. Use of B6-B20 blends in International® MaxxForce™ Diesel Engines 2007-up is at the discretion of the customer/operator and will not automatically void an engine warranty. However, if engine component failure can be directly attributable to use of a B6-B20 blend not provided by a BQ9000 certified fuel supplier, not meeting the ASTM D7467-08

[Click here for more info](#)

10/1/2008

standard or not used per Navistar recommendations, Navistar may, at its option, deny warranty on the affected engine or engine component.

<b>Isuzu</b>	B5	Isuzu currently approves B5 but is in the process of completing research with B20 that may allow for future B20 support. Isuzu recommends using fuel that meets ASTM D6751.	<a href="#">Click here for more info</a> <a href="#">Click here for more info</a>	8/13/2009
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<b>John Deere</b>	B20	John Deere places a B2 factory fill in all its U.S. diesel equipment. While 5 percent blends (B5) are preferred, biodiesel concentrations up to a 20 percent blend (B20) in petroleum diesel fuel can be used in John Deere engines through Tier 3/Stage III A. Biodiesel must meet ASTM D6751, and John Deere strongly recommends sourcing the fuel from a BQ-9000 Producer or Marketer.	<a href="#">Click here for more info</a>	8/13/2009
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<b>Kubota</b>	B5	Biodiesel must meet ASTM D6751 and petroleum diesel must meet ASTM D975. Kubota recommends	<a href="#">Click Here for more info</a> <a href="#">Click here</a>	8/13/2009
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purchasing biodiesel from BQ-9000 suppliers. [for more info](#)

**Mack**

B5

Biodiesel use is approved at B5 in all Mack engines including MP, ASET and E-Tech. The biodiesel must be supplied by a BQ-9000 Accredited Producer and Certified Marketer.

[Click here for more info](#)

8/13/2009

**Mercedes Benz**

B5

Mercedes-Benz USA now approves the use of B5 in all Common Rail Injection Diesel "CDI-engines" – including BLUETEC engines. The only approved biodiesel content is one that meets the ASTM D6751 specification.

[Click here for more info Mercedes diesel product info and B5 approval](#)

8/13/2009

**New Holland** B100

New Holland supports the use of B100 biodiesel in all equipment with New Holland-manufactured diesel engines, including electronic injection engines with common rail technology. Biodiesel must meet the approved ASTM D6751 standard.

[Click here for more info New Holland support for B100](#)

8/13/2009

**Nissan**

TBA

Nissan to launch diesel Titan Light Truck in 2009 and diesel Nissan Maxima in 2010. Biodiesel blend approval level

[Click here for more info](#)

8/13/2009

has not yet been announced.

<b>Perkins</b>	B5 / B20	Currently, all Perkins diesel engines are capable of using up to 5% RME without affecting the standard warranty terms. Many models, such as the 400 Series and 1100 Series engines, are also approved for up to B20 meeting ASTM D6751 and EN 14214.	<a href="#">Click here for more info</a> <a href="#">Click here for more info</a>	8/13/2009
<b>Peterbilt</b>	B5	Peterbilt is a division of PACCAR Inc. NBB is working with Peterbilt to post a formal statement on biodiesel on their website.	<a href="#">PACCAR news release on green initiatives</a> <a href="#">www.peterbilt.com</a>	8/13/2009
<b>Sterling</b>	B5	NBB is working with Sterling Trucks to post a formal biodiesel position statement on their website.	<a href="#">www.sterlingtrucks.com/</a>	8/13/2009
<b>Thomas Built Buses</b>	B5	Thomas Built Buses is a division of Daimler Trucks North America. NBB is working with Thomas Built to post a formal statement on biodiesel on their website.	<a href="#">www.thomasbus.com/</a>	8/13/2009
<b>Tomcar</b>	B100	B100 is approved for use in	<a href="#">Click here</a>	2/1/2008

		the TomCar TM47, Tomcar's 953cc 3-Cylinder Turbo-Diesel commercial / recreational vehicle, and in the new TM57	<a href="#">for more info</a>	
<b>Tomcar</b>	B100	B100 is approved for use in the TomCar TM47, Tomcar's 953cc 3-Cylinder Turbo-Diesel commercial / recreational vehicle, and in the new TM57.	<a href="http://www.tomcar.com/">http://www.tomcar.com/</a>	8/13/2009
<b>Toro</b>	B20	B20 is approved for 2008 and later Toro Reelmaster, Groundsmaster, Greensmaster, Workman and Multipro product families. Toro is offering upgrade kits for these product lines produced before 2008 to run on B20.	<a href="#">Click here for more info</a>	8/13/2009
<b>Toyota</b>	TBA	Toyota will offer the Tundra pickup and the Sequoia SUV with a clean diesel V8 engine in the near future. Biodiesel blend level approvals have not yet been announced.	<a href="#">Click here for more info</a>	8/13/2009
<b>Volkswagen</b>	B5	B5 is approved for use in all Volkswagen of America TDI diesel vehicles. Biodiesel blend must meet all current petroleum industry specifications (ASTM D6751 and ASTM D975) and be	<a href="#">Click here for more info</a> <a href="#">Biodiesel use in VW Jetta TDI</a>	8/13/2009

purchased from a reputable commercial retail pump. Volkswagen of America is using biodiesel blends to power its entire 2009 Volkswagen Jetta TDI Cup race series, from the VW Jetta TDI racecars running on B5, to the generators and transport trucks running on blends up to B20.

[Cup race series](#)

**Volvo**

B5

Volvo Truck Corporation does not accept more than 5% biodiesel (SME) in diesel, ready mixed from the oil company.

[Click here for more info](#)

8/13/2009

**Yanmar**

B20

All Yanmar diesel engines are B20 compatible.

[Click here for press release on B20 support](#)

8/13/2009

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