



**AUTOMAKERS' AND ENGINE MANUFACTURERS' POSITIONS OF SUPPORT FOR BIODIESEL BLENDS
As of January 2008**

COMPANY	BIODIESEL BLEND APPROVAL	NOTES	REFERENCE / SOURCE	LAST UPDATED	
1	Arctic Cat	B20	B20 Approved for use in Arctic Cat twin cylinder diesel ATVs. Biodiesel fuel must meet ASTM D6751 spec.	http://www.biodiesel.org/resources/pressreleases/gen/20061003_arctic_cat.pdf http://www.arcticcat.com/atv/vehicle.asp?id=859	10/3/06
2	Audi	TBA	Audi will be introducing 2 new diesels into the US market in late 2008: the Audi A4 Sedan and Q7 SUV. Biodiesel blend level approvals have not yet been announced.	http://media.audiusa.com/article_display.cfm?article_id=9919	7/18/07
3	BMW	TBA	BMW will be introducing 2 new diesels into the US market in Fall 2008: the BMW X5 xDrive 35d and the BMW 335d sedans. The vehicles will be available in all 50 states. Biodiesel blend level approvals have not yet been announced.	http://www.bmwusa.com/Standard/Content/Uniquely/FutureTechnologies/EfficientDynamics/AdvancedDiesel.aspx	1/16/08
4	Buhler	B20	B20 Approved for use in Buhler 4WD tractors powered by Cummins Tier 3 QSM and QSX engines.	http://www.buhler.com/news/200704_18.shtml	4/18/07
5	Case IH	B100 - Approved for nearly half of the Case IH models sold globally B20 - Approved for more than 90% of Case IH models sold in US and Europe B5 - Approved for every Case IH engine sold globally	Visit www.caseih.com for biodiesel approval levels on specific products and equipment by model	http://www.caseih.com/highlights/highlights.aspx?navid=121&recordid=193&RL=ENNA	1/24/08
6	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 (SEBU6251-10) - See page 38 for biodiesel recommendations	http://www.cat.com/cda/components/fullArticle?m=37675&x=7&id=149474	6/1/07
7	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 other Cummins engines not listed are approved for B5 . B100 must meet ASTM D6751 spec; B20 must conform to EMA Test Specification for B20. Cummins requires use of biodiesel sourced from BQ-9000 Certified Marketers and Producers for the U.S. and Canada.	http://www.everytime.cummins.com/every/customer/faq_biodiesel.jsp	12/9/07

8	Chrysler LLC	<p>B20 - 2007 Dodge Ram - Approved Government, Military and Commercial Fleets</p> <p>B5 - Jeep Grand Cherokee CRD - Dodge Ram 2500 / 3500 - Jeep Liberty CRD - Dodge Sprinter Van - All other diesels</p>	<p>B5 Factory Fill in place for 2008 Dodge Ram and 2008 Jeep Grand Cherokee</p> <p>Biodiesel fuel must meet ASTM D6751 as well as Military Spec requirements stating fuel must be used within 6 months of production</p>	<p>http://blog.chryslerllc.com/blog.do?id=247&p=entry</p> <p>http://www.chryslerllc.com/en/environment/green_fuels/</p>	1/10/08
9	Detroit Diesel	B5	<p>Biodiesel must meet ASTM D6751 and petroleum diesel must meet ASTM D975. Biodiesel should be sourced from a BQ-9000 Accredited Producer.</p> <p>See Sec. 5.1.3 of Detroit Diesel Lubricants, Oil, Fuel & Filters Manual on pg. 27 for Biodiesel Recommendations.</p>	http://www.ddcsn.com/cps/rde/xbcrr/ddcsn/7SE270.pdf	1/1/07
10	Fairbanks Morse	B100	<p>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.</p>	http://www.biodiesel.org/pdf_files/OEM%20Statements/2007_fairbanksmorseengineapproves100biodiesel.pdf	2/1/07
11	Ford Motor Co.	B5	<p>Any recent-model Ford truck with a diesel engine can run 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.</p>	https://www.fleet.ford.com/showroom/environmental_vehicles/biodiesel_vehicles.asp	8/31/07
12	General Motors	<p>B20 - Available as a Special Equipment Option (SEO) on the 2008 Chevy Silverado and GMC Sierra for approved fleets</p> <p>B5 - All other GM diesel vehicles</p>	<p>B20 SEO available to fleets on the 6.6L Duramax diesel engine in the 2008 Chevy Silverado Heavy Duty, and GM Sierra Heavy Duty One Ton Pickup.</p>	<p>http://media.gm.com/us/gmc/en/product_services/r_c_sierra/index%20HD.html</p> <p>http://media.gm.com/us/chevrolet/en/product_services/r_trucks/r_c_silverado/index%20HD.html</p> <p>http://www.gm.com/corporate/responsibility/environment/news/2006/epa_smartway_102706.jsp</p>	8/1/07
13	Honda	TBA	<p>Honda and Acura are working in tandem to introduce the new i-DTEC clean diesel engine to the North American market in 2009. The i-DTEC engine meets the ultra-stringent U.S. EPA Tier II Bin 5 emission standards without the on-board storage of urea.</p> <p>Biodiesel blend approval levels are being discussed but have not yet been formally announced.</p>	<p>http://corporate.honda.com/press/article.aspx?id=4394</p> <p>http://corporate.honda.com/press/article.aspx?id=200704033945</p>	1/13/07
14	Hyundai	TBA	<p>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.</p>	http://money.cnn.com/2007/05/01/autos/diesels/	6/5/07
15	International	B5	<p>International will warranty engines using up to and including the B5 blend. International's stated biodiesel position follows that of the Engine Manufacturers' Association (EMA).</p> <p>International's warranty policy does not deny coverage solely for the use of blends higher than B5, but only if the failure is attributed to the use of higher biodiesel blends.</p>	http://www.biodiesel.org/pdf_files/OEM%20Statements/2005_May_OEM_International.pdf	5/1/05

16	Isuzu	B5	Isuzu neither approves nor prohibits using bio-diesel fuel. Any failure from using bio-diesel fuel will not be covered by the warranty. Isuzu recommends using fuel that meets ASTM D6751.	See http://www.isuzudieselengine.com/ for information on Isuzu's diesel product offerings. http://www.biodiesel.org/resources/fuelsfactsheets/standards_and_warranties.shtml	6/20/07
17	John Deere	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 models, including all non-emissions-certified engines. Biodiesel must meet ASTM D6751 and petroleum diesel content must meet ASTM D975. John Deere recommends use of a BQ-9000 certified supplier for the biodiesel.	http://www.deere.com/en_US/rg/infocenter/infoevents/pr/2007/biodiesel.html	11/12/07
18	Kubota	B5	Biodiesel must meet ASTM D6751 and petroleum diesel must meet ASTM D975. Kubota recommends purchasing biodiesel from BQ-9000 suppliers.	http://www.biodiesel.org/pdf_files/OEM%20Statements/2006_OEM_kubota.pdf	11/1/06
19	Mack	B5 produced from Soy Methyl Ester (SME or SOME)	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.	http://www.biodiesel.org/pdf_files/OEM%20Statements/2007_OEM_MACK.pdf	6/28/07
20	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 and that has <u>additionally</u> the necessary oxidation stability (min. 6h, proved with EN14112 method).	http://www.biodiesel.org/pdf_files/OEM%20Statements/20060608_Mercedes_Benz_bio_position.pdf http://www.mbusa.com/models/main.do?modelCode=E320BTEC	1/24/08
21	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. A listing of all the New Holland models that can be run on B100 can be found at: http://www.newholland.com/na/biodiesel/NHBiodiesel.pdf	http://www.newholland.com/na/biodiesel/ http://www.newholland.com/na/biodiesel/NHBiodiesel.pdf	11/8/07
22	Nissan	TBA	Nissan to launch diesel Titan Light Truck in 2009 and diesel Nissan Maxima in 2010. Biodiesel blend approval level has not yet been announced.	http://www.nissannews.com/	9/10/07
23	Toro	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.	http://mediaroom.toro.com/msword/Biodiesel%20Ready%20Release.doc	2/14/07
24	Volkswagen	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 purchased from a reputable commercial retail pump.	http://www.biodiesel.org/pdf_files/OEM%20Statements/2005_OEM_VW%20US%20Biodiesel_Statement_5_16_05.pdf http://www.vw.com/vdubopedia/en/us/html/detail_71.html http://www.media.vw.com/article_display.cfm?article_id=9561	1/24/08

25	Volvo	B5	Volvo Truck Corporation does not accept more than 5% biodiesel (RME) in diesel, ready mixed from the oil company.	http://www.biodiesel.org/pdf_files/OEM%20Statements/2005_Volvo_Truck_Corporation.pdf	11/2/06
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