

# Approval List

Biodiesel (B10)

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**MVOK**  
Mittelstandsverband abfallbasierter Kraftstoffe

# NOTHING IS MORE POWERFUL THAN AN IDEA WHOSE TIME HAS COME

(Victor Hugo)

Why not use the cheaper and more GHG-reducing option for Europe's further decarbonisation of liquid fuels?

Europe has gotten used to the political B7 norm agreed many years ago as a compromise and stakeholders seem to have forgotten that - technically - B10 was never factually an issue with the current technology of diesel engines in EU passenger cars.

This "dogma" was first challenged by North & South American as well as Asian stakeholders where the same European models can run on B10 or even B20.

Current investigations revealed that more passenger car models in Europe, than widely assumed, can run on B10.

The increasing mandates of the RED I and the further growing targets of the RED II - which we already know will be revised further upwards in order to achieve the Paris Accord objectives – have led to a situation in several national markets of the EU where the 7% threshold of biodiesel has been achieved. This situation is leading to the forced incorporation of HVO above 7% , a more expensive option for tax payers and motorists, but also a less GHG-reducing alternative.

This list is intended to provide information to EU policy makers and European citizens at large, who wish to achieve the self-imposed climate change targets and additionally offers near-term decarbonisation as combustion engine cars have the opportunity to reduce emissions now.

## Note:

The contents of this approval list have been created with the utmost care. Nevertheless, no guarantee can be given for the accuracy, completeness and timeliness of the content provided. The use of the contents of this list is at your own risk. It is therefore strongly recommended to confirm the approval by the respective vehicle or engine manufacturer prior to the use of biodiesel or biodiesel-containing fuels and to obtain information on any special maintenance and service requirements that may exist.

# Approval List: Passenger Cars

Company	Vehicle Type	Approval			Remarks
		Construction Year	Emission Level	Biodiesel Share	
<b>BMW</b>	All vehicles	-	Euro 5 and Euro 6	B10	Approval also applies to BMW vehicles that are factory-fitted or retrofitted with an original BMW diesel particulate filter.
<b>Citroen</b>	All vehicles	from 01.01.2000	-	B10	
<b>Dacia</b>	All vehicles	-	from Euro 5	B10	
<b>DS</b>	All vehicles	-	-	B10	
<b>Infiniti</b>	EX30D / QX50 J50 (3,0 dCi)	from 29.12.2010	-	B10	
	FX30D / QX70 S51 (3,0 dCi)	from 29.12.2011	-		
	M / Q70 Y51 (3,0 dCi)	from 29.12.2012	-		
<b>Mitsubishi</b>	ASX 1.6 (DI-D 115 ch 2WD)	-	-	B10	
	ASX 1.6 (DI-D 115 ch 4WD)	-	-		



Company	Vehicle Type	Approval			Remarks
		Construction Year	Emission Level	Biodiesel Share	
Nissan	Cube Z12	from 2008	-	B10	
	Evalia M20M	all	-		
	Juke F15	all	-		
	Micra K14	all	-		
	Navara D40	from 15.07.2011	-		
	Note E13	all	-		
	NP300 Navara D23	all	-		
	NP300 Pickup D22	from 31.08.2010	-		
	NT400 Cabstar F24	from 26.09.2016	-		
	NV200 M20N	all	-		
	NV300 X82	all	-		
	NV400 X62	2012-2016	-		
	Primastar X83 (2,0 dCi engine)	from 04.10.2012	-		
	Pulsar C13	all	-		
	Qashqai J11	all	-		
X-Trail T32	all	-			
Opel/ Vauxhall	All vehicles except: Combo (Construction year 2017-2018); Corsa D (Construction year 2006-2014); Meriva B (Construction year 2010-2017); Astra H (Construction year 2004-2010); Zafira B (Construction year 2005-2014)	-	from Euro 5	B10	
Peugeot	All vehicles	from 01.01.2000	-	B10	
	208, 308, 508, 2008, 3008, 5008, Boxer, Expert, Partner, Rifter, Traveler	from 01.01.2000	-	B20/B30	The use of B20 or B30 fuels is associated with special maintenance conditions „difficult conditions“.
Renault	All vehicles	-	from Euro 5	B10	

# Approval List: Passenger Cars outside Europe

Company	Vehicle Type	Approval					Remarks
		Engine Type	Construction Year	Emission Level	Biodiesel Share	Country	
<b>BMW</b>	320d 2015 Gran Turismo F34	Only diesel engines with engine codes B37, B47 and B57	-	Euro 5	B10	Thailand	Diesel engines with codes N47 and N57 only support diesel fuels with up to 7% FAME (V/V)
	320d 2018 G20						
	420d 2015 Coupe F32						
	420d 2015 Cabrio F33						
	420d 2015 Gran Coupe F36						
	520d 2014 F10						
	520d 2016 G30						
	630d 2017 GT G32						
	725Ld 2018 G12						
	730Ld 2015 G12						
	X1 2015 sDrive 18d F48						
	X1 2017 sDrive 20d F48						
	X3 2014 xDrive 20d F25 LCI						
	X3 2017 xDrive 20d G01						
	X4 2014 xDrive 20d F26						
	X4 2018 xDrive 20d G02						
	X5 2015 sDrive 25d F15			Euro 4			
	X5 2018 xDrive 30d G05						
X6 2019 xDrive 30d G06							
X7 2019 M50d G07							

Company	Vehicle Type	Approval					Remarks
		Engine Type	Construction Year	Emission Level	Biodiesel Share	Country	
Chevrolet	Colorado	BGP, BGS, BG2, BG3	2014	Euro 4	B10	Thailand	VIN must be checked by Chevrolet Customer Service Center before using B10.
		FZ7, FZ9, GAG, GAH	2015				
		FW7, FW9, FXH	2016				
		GEZ, FXR, FX6	2017				
		HG5, HG8, HHC	2018				
		LKH, LP2	2019/2020				B10/B20
	Colorado (2WD/4WD/ZR2 4WD)	2.8 L Duramax® Turbo Diesel V6	from 2019	Tier 3 (similar to Euro 6d)	B20	USA, Canada	
	Cruze und Cruze Hatchback	1.6 L Turbo Diesel	from 2018				
	Equinox (4WD/AWD)	1.6 L Turbo Diesel					
	Silverado 1500 (2WD/4WD)	3.0 L Duramax ® Turbo Diesel I-6	from 2019				
	Trailblazer	FZ9, GAH	2015	Euro 4	B10	Thailand	
		FW9, FXH	2016				
		GE2, FX6	2017				
		HG6, HHC	2018				
		LP 2	from 2019				



Company	Vehicle Type	Approval					Remarks
		Engine Type	Construction Year	Emission Level	Biodiesel Share	Country	
Ford	Everest	P4AT, P5AT (TDCi)	2015-2018	Euro 4	B10	Thailand	Can be adapted to B20 - contact the Ford Service Center
		YMWQ, YNWQ (TDCi)	2018-2019		B10		
		YMWQ, YNWQ (TDCi)	from 2018		B10 (B20)		
	F-150	3.0 L Power Stroke® Turbo Diesel V6	from 2018	-	B20	USA, Canada	
	F-250 Super Duty	6.7 L Power Stroke® Turbo Diesel V8	from 2011	-			
	F-350 Super Duty	6.7 L Power Stroke® Turbo Diesel V8	-	-			
	F-450 Super Duty	6.7 L Power Stroke® Turbo Diesel V8	-	-			
	Transit (Cargo 150/250/350)	3.2 L I-5 Power Stroke® Diesel	-	-	B30		
	Transit (Passenger)	3.2 L I-5 Power Stroke® Diesel	-	-			
	Ranger	P4AT, P5AT (TDCi)	2011-2013	Euro 3	B10		
			2013-2018		B10		
			2013-2019		B10		
		YM2Q, YN2Q (TDCi)	from 2018	Euro 4	B10 (B20)	Thailand	Can be adapted to B20 - contact the Ford Service Center
		P4AT (TDCi)	from 2020			Thailand	Can be adapted to B20 - contact the Ford Service Center

Company	Vehicle Type	Approval					Remarks
		Engine Type	Construction Year	Emission Level	Biodiesel Share	Country	
GMC	Canyon 2WD/4WD	2.8 L Duramax® Turbo Diesel I-4	-	-	B20	USA, Canada	
	Sierra 1500 2WD/4WD	3.0 L Duramax® Turbo Diesel I-6	-	-			
	Sierra Denali 2500 HD, 3500 HD	6.6 L Duramax® Turbo Diesel V8	-	-			
	Terrain Diesel	1-6 L Turbo Diesel	-	-			
Isuzu	D-Max	4JJ1-TCX 4JK1-TCX 4JK1-TC	2012-2013	Euro 3	B10 (B20)	Thailand	Can be adapted to B20 - contact the Ford Service Center
		4JJ1-TCX 4JK1-TCX 4JK1-TC	2014-2015	Euro 4			
		4JJ1-TCX RZ4E-TC	2016-2019	Euro 4			
	mu-X	4JJ1-TCX RZ4E-TC	2017-2019	Euro 4			
Jaguar	F-Pace	2.0 L 180 HP Turbo Diesel AWD	-	-	B20	USA, Canada	
	XE 2WD/AWD	180 HP Turbo Diesel	-	-			
	XF 2WD/AWD	2.0 L 180 HP Diesel	-	-			
Land Rover	Discovery	3.0 L Turbo Diesel TD6	-	-	B20	USA, Canada	
	Range Rover	3.0 L Turbo Diesel TD6	-	-			
	Range Rover Sport	3.0 L Turbo Diesel TDV6	-	-			
	Range Rover Velar	2.0 L 16V i4 Turbo Diesel 180 HP	-	-			
Mazda	BT50 Pro 2.2L, Pro 3.2L	P4AT, P5AT (Common Rail)	from 2012	Euro 4	B10	Thailand	
Mercedes Benz	N.N.	Diesel	from 2015	-	B10	Malaysia	

Company	Vehicle Type	Approval					Remarks
		Engine Type	Construction Year	Emission Level	Biodiesel Share	Country	
MG	Extender DC Grand 2,0 D 6AT, 2,0 D 6MT, 2,0 x 6AT	D20, 20D4N	2019	Euro 4	B10	Thailand	
	Extender DC Grand 4 WD 2,0 x 6AT						
	Extender GC 2,0 C 6MT, 2,0 D 6MT						
	Extender GC Grand 2,0 D 6AT, 2,0 D 6MT, 2,0 x 6MT						
Mitsubishi	Pajero Sport	4D56	2011-2014	Euro 4	B10	Thailand	
		4N15	from 2016	Euro 4			
	Triton	4D56	2007-2013	Euro 3			
		4M41	2010	Euro 4			
		4D56	2011-2015	Euro 4			
		4D56, 4N15	from 2015	Euro 4			
Nissan	Frontier D22T	Diesel Common Rail	from 2006	Euro 3	B10	Thailand	
	Navara D23	YD25DDTi	from 09/2014	Euro 4			
	Terra D23	YS23DDTT	from 2018	Euro 4			
	Titan	5.0 L Cummins® Turbo Diesel V8	Baujahr 2019	Tier 3 (similar to Euro 6d)			
	Urvan E26	YD25DDTi	from 2013	Euro 4			
RAM	1500	3.0 L Turbo Diesel V6	-		B20	USA, Canada	
	2500	6.7 L Cummins® I6 Turbo Diesel	-				
	3500	6.7 L Cummins® I6 Turbo Diesel	-				
	Promaster Cargo (1500/2500)	3.0 L I4 ECO Diesel	-	Tier 3			
	Promaster 2500 Window	3.0 L I4 ECO Diesel	-	(similar to Euro 6d)			

Company	Vehicle Type	Approval					Remarks
		Engine Type	Construction Year	Emission Level	Biodiesel Share	Country	
Toyota	Fortuner (KUN51R-NKASYT, KUN61R-NKASYT, KUN60R-NKASHT, KUN60R-NKMSHT)	1KD-FTV, 2KD-FTV	-	Euro 4	B10	Thailand	
	Fortuner (GUN156R-STTMHT, GUN166R-STTMHT, GUN155R-STTMHT, GUN165R-STTSHT, GUN165R-STFSHT)	1GD-FTV, 2GD-FTV	-				
	Fortuner (GUN155R-STTHXT, GUN156R-STTHXT, GUN165R-STTHXT, GUN166R-STTHXT, GUN165R-STTSXT)	1GD-FTV, 2GD-FTV	-				



# Approval List B10-B100: Commercial Vehicles

Company	Vehicle and [Engine Type]	Approval		Remarks
		Emission Level	Biodiesel Share	
DAF	XF and CF [MX-11, MX-13 (from year 2017)]	Euro VI	B30	For older generations MX-11 and MX-13 engines only diesel according to EN 590 allowed
	[PX-4, PX-5, PX-7]	-	B20	
	Auxiliary Heater [Airtop 2000 ST (ACH-W3)]	-	B100	
Daimler (EvoBus)	-			see Mercedes Benz
IVECO / IVECO Bus (formerly Irisbus)	EuroTech, EuroStar, EuroTrakker, Stralis, Trakker [Cursor-engines 8/10/13, engines with PDE]	Euro II/III Euro IV/V	B100	Approval is connected to certain equipment and service guidelines
	[Engines with distributor injection pumps and common-rail injection systems]	-	-	Not approved
MAN Trucks	TGL/TGM Serie [D08 from year 10/1998] TGX/TGS Serie [D20] TGX/TGS Serie [D26] [D28 from year 10/1998]	Euro V	B100	All trucks with engines approved for FAME operation are equipped with FAME-compatible components on the chassis side (fuel system, fuel gauge) Vehicles with NOx control (OBD1b and OBD2) must be ordered with the sales group „Biodiesel“ Vehicles with CRT filters can only be operated after approval with FAME. For common rail engines, a purchase guarantee for injection components must be purchased Euro 6 engines with SCRT are not approved
	Following basic vehicles: TGS: 06S, 08S, 18S TGX: 05X, 06X, 13X, 18X, 21X, 24X, 89X [D2676L F63, F64, F65]	Euro VI	B100	
MAN Bus	[D1556LUH 10/11/12 D2066LUH 55/56/61/62 D0836LOH 75/76/77/83/84/85/89]	Euro VI	B100	

Company	Vehicle and [Engine Type]	Approval		Remarks
		Emission Level	Biodiesel Share	
<b>Mercedes-Benz Trucks, EvoBus - Daimler</b>	Actros, Arocs [BM 471.926 (OM 471)]	Euro VI	B100	With biodiesel code
	Actros, Travego [BR 500]	Up to Euro V	B100	
	Atego, Axor, Econic [BR 900]			
	Zetros, Tourino [BR 900 (OM 926 LA)]			
	Axor [BM 457.9]			
<b>MTU</b>	All years of construction [S1600Gx0; S2000 Gx2/Gx4/Gx5/Gx6; S4000 Cx0/Cx1/Gx2/Gx3/Gx4]	-	B20	Special operating requirements and additional maintenance recommendations
	With low-pressure fuel pipe made of metal [S2000Gx3, S4000Gx1]	-	B100	
	From series production [OM 457 LA, 460, 500, 900]	-	B100	
<b>Renault Trucks</b>	-	-	-	When using Volvo engines, the release information from Volvo Trucks can be used
<b>SCANIA</b>	[DC09 108 und 112 (ab BJ. 02/2014), DC09 133 und 134 (ab BJ. 03/2015), DC09 320, DC09 360 DC13 124 und 125 (ab BJ. 05/2014) DC16 102 (ab BJ. 07/2014)]	Euro VI XPI	B100 max. 4 mg/kg ash constituents and max. 1 mg/kg phosphorus, modification to biodiesel operation	General exceptions: Rescue vehicles and vehicles with service life >2 months, industrial engines with XPI, buses with HPI engines and non-FAME approved XPI engines
	All vehicles and engines	Up to Euro V	B100 modification to biodiesel operation	
	All vehicles and engines	All emission levels	B10	
<b>Volvo Trucks</b>	Volvo FL and FE [D5K, D8K]	Euro VI Stage C	B100	No general release

Further information on the subject of biodiesel is available from the following associations:



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