

RECOMMENDATIONS FOR BIODIESEL FUEL APPLICATION IN CATERPILLAR ENGINES¹

ENGINE MODELS	MODEL SPECIFIC	BIODIESEL ACCEPTABLE BLEND LEVELS
ACERT™ ENGINES; C7 THROUGH C32; C-9 THROUGH C-18; C280 SERIES; CM20, CM25 AND CM32; 3300 SERIES AND 3400 SERIES; 3500 SERIES AND 3600 SERIES	ENGINE MODELS WITH AFTERTREATMENT DEVICES AND ENGINE MODELS PER STAGE V EMISSIONS REGULATIONS	UP TO B20
	ENGINE MODELS WITHOUT AFTERTREATMENT DEVICES	<div>UP TO B100</div> <div>(FOR USE OF BLEND LEVELS HIGHER THAN B20, ENSURE FUEL IS PER SPECS AND CONSULT WITH YOUR CAT® DEALER)</div>
CAT ENGINE MODEL C175	EU STAGE IIIB MODEL, EU STAGE V (LOCOMOTIVE)	UP TO B7
	ALL OTHER C175 ENGINES	<div>UP TO B100</div> <div>(FOR USE OF BLEND LEVELS HIGHER THAN B20, ENSURE FUEL IS PER SPECS AND CONSULT WITH YOUR CAT DEALER)</div>
3003 THROUGH 3066	CAT ENGINE MODELS: 3003 THROUGH 3066	UP TO B7²
C0.5 THROUGH C7.1 (MECHANICAL (PLN) FUEL SYSTEM)	C0.5, C0.7, C1.1, C1.5, C1.6, C2.2, C3.3, C4.4 ENGINE MODELS TIER 2 / EU STAGE II / CHINA NR2 OR EARLIER EMISSIONS REGULATION, WITHOUT AFTERTREATMENT DEVICES	UP TO B7²
	C1.3, C1.8, C2.4, C2.6, C3.3B, C3.4 ENGINE MODELS WITHOUT AFTERTREATMENT DEVICES	UP TO B20
	C0.5, C0.7, C1.1, C1.7, <19KW ENGINE MODELS, STAGE V EMISSIONS REGULATIONS, WITHOUT AFTERTREATMENT DEVICES	UP TO B20
	C0.5, C0.7, C1.1, C1.5, C1.7, C2.2, C3.3, C3.4, C3.6, C4.4, C7.1 ENGINE MODELS TIER 3 / EU STAGE IIIA / CHINA NR3 OR LATER EMISSIONS REGULATION, WITHOUT AFTERTREATMENT DEVICES	UP TO B20³
C1.7 THROUGH C7.1(HIGH PRESSURE COMMON RAIL (HPCR) FUEL SYSTEM)	C1.7, C2.2, C2.8, C3.4B, C3.6, C4.4, C6.6, C7.1 ENGINE MODELS TIER 4 / EU STAGE IV / EU STAGE V / CHINA NR4 OR LATER EMISSIONS REGULATION, WITH AFTERTREATMENT DEVICES	UP TO B20
	C2.8, C3.6, C4.4, C6.6, C7.1 ENGINE MODELS TIER 3 / EU STAGE IIIA / CHINA NR3 OR LATER EMISSIONS REGULATION, WITHOUT AFTERTREATMENT DEVICES	UP TO B20³
	C3.3B, C3.8 ENGINE MODELS WITH AFTER TREATMENT DEVICES	UP TO B7²
C4.4, C6.4 AND C6.6 ENGINE SERIAL PREFIX 444, C4E, 666, C6E	C4.4 ENGINES (S/N 44400001-04303)	UP TO B7²
	C6.6 ENGINES (S/N CE600001-14623 AND S/N 66600001-09015)	UP TO B7²
	C4.4 ENGINES (S/N C4E05524-UP AND 44404304 -UP)	UP TO B20³
	C6.4 AND CERTAIN C6.6 ENGINES (S/N CE614624-UP AND 66609016-UP)	UP TO B20³

¹ EU Regulations require the biodiesel blends used in Stage V engines and Special-Purpose Engines (SPE) operated within the European Union (EU) to contain no more than 8% v/v FAME unless specified otherwise in the engine-specific Operation and Maintenance Manual. B8 can be used where B7 is specified.

² Use of Biodiesel blends above 7% may cause premature wear of the fuel pump and damage to the low-pressure fuel system components as both may contain material incompatible with higher Biodiesel blends.

³ Higher blends, up to B30, where mandated can be used in these engines.