

Table 1: Tier I, II, & III Off-Road Diesel Engine Emissions Standards

Emissions Standards are presented as NMHC + NO_x/CO/PM in g/bhp-hr.^a

hp	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
<11	See Table 2				7.8				5.6				
					6.0				6.0				
	See Table 2				0.75				0.60				
≥ 11 < 25					7.1				5.6				
	No Standards Established				4.9				4.9				
					0.6				0.60				
≥ 25 < 50	No Standards Established				7.1				5.6				
					4.1				4.1				
	No Standards Established				0.6				0.45				
≥ 50 < 100					N/A ^b				5.6				3.5
	6.9								3.7		3.7		
	N/A ^b				N/A				0.30		0.30 ^c		
					N/A				0.30		0.30 ^c		
≥ 100 < 175	N/A ^b				4.9				3.0				
					6.9				3.7		3.7		
	N/A ^b				0.22				0.22 ^c				
					N/A				0.22		0.22 ^c		
≥ 175 < 300	1.0 ^b				4.9				3.0				
					6.9				2.6		2.6		
	1.0 ^b				8.5				0.15 ^c				
					0.40				0.15		0.15 ^c		
≥ 300 < 600	1.0 ^b				4.8				3.0				
					6.9				2.6		2.6		
	1.0 ^b				0.15				0.15 ^c				
					8.5				0.15		0.15 ^c		
≥ 600 ≤ 750	1.0 ^b				4.8				3.0				
					6.9				2.6		2.6		
	1.0 ^b				0.15				0.15 ^c				
					8.5				0.15		0.15 ^c		
≥ 750	No Standards Established				1.0 ^b				4.8				
					6.9				2.6		2.6		
	No Standards Established				8.5				0.15				
					0.40				0.15		0.15		

- a.  Tier 1  Tier 2  Tier 3
- b. Standards are given as HC/ NO_x/CO/PM in g/bhp-hr
- c. PM values are carried over from Tier 2 to Tier 3

Table 2: Diesel Engine Emissions Standards for Small Off-Road Engines (< 25 hp)

Engine Size (cc)	Year	HC + NO_x (g/bhp-hr)	CO (g/bhp-hr)	PM (g/bhp-hr)
< 225	1995 - 99	12.0	350	0.9
> 225	1995 - 99	10.0	350	0.9

Reference: California Code of Regulations, Title 13,
Section 2403 – Exhaust Emission Standards and Test Procedures – Small Off-Road Engines
Section 2423 – Exhaust Emissions Standards and Test Procedures – Off-Road Compression Engines.