

Table 1. Off Road Compression - Ignition Diesel Engine Standards (NMHC + Nox/CO/PM in g/bhp hr.)

hp (kw)	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015+
≥ 50 (37) < 75 (55.5)				N/A <sup>(b)</sup> 6.9 (9.2) N/A N/A						5.6 (7.5) 3.7 (5.0) 0.30 (0.40)				3.5 (4.7) 3.7 (5.0) 0.22 <sup>(c)</sup>					3.5 3.7 0.02 <sup>(e)</sup>		
≥ 75 (55.5) < 100 (75)				N/A <sup>(b)</sup> 6.9 (9.2) N/A N/A						5.6 (7.5) 3.7 (5.0) 0.30 (0.40)				3.5 (4.7) 3.7 (5.0) 0.3				0.14 2.5 3.7 0.01 <sup>(b,d)</sup>			0.14 0.29 3.7 0.01 <sup>(b)</sup>
≥ 100 (75) < 175 (130) <sup>(e)</sup>			N/A <sup>(b)</sup> 6.9 (9.2) N/A N/A						4.9 (6.6) 3.7 (5.0) 0.22 (0.30)				3.0(4.0) 3.7 (5.0) 0.22					0.14 2.5 3.7 0.01 <sup>(b,d)</sup>			0.14 0.29 3.7 0.01 <sup>(b)</sup>
≥ 175 (130) < 300 (225) <sup>(e)</sup>		1.0 (1.3) <sup>(b)</sup> 6.9 (9.2) 8.5 (11.4) 0.40 (0.54)							4.9 (6.6) 2.6 (3.5) 0.15 (0.20)			3.0 (4.0) 2.6 (3.5) 0.15 <sup>(e)</sup>					0.14 1.5 2.6 0.015 <sup>(b,d)</sup>			0.14 0.3 2.6 0.01 <sup>(b)</sup>	
≥ 300 (225) < 600 (450) <sup>(e)</sup>		1.0 (1.3) <sup>(b)</sup> 6.9 (9.2) 8.5 (11.4) 0.40 (0.54)					4.8 (6.4) 2.6 (3.5) 0.15 (0.20)					3.0 (4.0) 2.6 (3.5) 0.15 <sup>(e)</sup>					0.14 1.5 2.6 0.015 <sup>(b,d)</sup>			0.14 0.3 2.6 0.01 <sup>(b,d)</sup>	
≥ 600 (450) ≤ 750 (560) <sup>(e)</sup>		1.0 (1.3) <sup>(b)</sup> 6.9 (9.2) 8.5 (11.4) 0.40 (0.54)						4.8 (6.4) 2.6 (3.5) 0.15 (0.20)				3.0 (4.0) 2.6 (3.5) 0.15 <sup>(b)</sup>					0.14 1.5 2.6 0.015 <sup>(b,d)</sup>			0.14 0.3 2.6 0.01 <sup>(b,d)</sup>	
> 750 (560) <sup>(e)</sup>						1.0 (1.3) <sup>(b)</sup> 6.9 (9.2) 8.5 (11.4) 0.40 (0.54)						4.8 (6.4) 2.6 (3.5) 0.15 (0.20)					0.3 2.6 2.6 0.07 <sup>(b)</sup>				0.14 2.6 2.6 0.03 <sup>(b)</sup>
> 750 ≤ 1207	Generators					1.0 (1.3) <sup>(b)</sup> 6.9 (9.2) 8.5 (11.4) 0.40 (0.54)						4.8 (6.4) 2.6 (3.5) 0.15 (0.20)					0.3 2.6 2.6 0.07 <sup>(b)</sup>				0.14 0.5 2.6 0.02 <sup>(b)</sup>
> 1207	Generators					1.0 (1.3) <sup>(b)</sup> 6.9 (9.2) 8.5 (11.4) 0.40 (0.54)						4.8 (6.4) 2.6 (3.5) 0.15 (0.20)					0.3 0.5 2.6 0.07 <sup>(b)</sup>				0.14 0.5 2.6 0.02 <sup>(b)</sup>

- a. The PM standard for hand-start, air cooled, direct injection engines below 6 bhp may be delayed until 2010 and be set at 0.45 g/bhp-hr.
  - b. Standards given are NMHC/NOx/CO/PM in g/bhp-hr.
  - c. Engine families in the power category may alternately meet Tier 3 PM standards (0.3 g/bhp-hr) from 2008-2011 in exchange for introducing final PM standards in 2012.
  - d. The implementation schedule shown is the three-year alternate Nox approach. Other schedules are available.
  - e. Certain manufacturers have agreed to comply with these standards by 2005.
- Note: This chart was converted into bhp units based on the chart at <http://www.arb.ca.gov/msprog/offroad/offroad.htm> 2/7/06.

	Tier 1		Interim Tier 4
	Tier 2		Final Tier 4
	Tier 3		