

EPA Non-Road Diesel Emission Standards

All Units Represented In g/kWh (g/bhp-hr)

Enigne Power	Tier	Year	CO	HC	NMHC+NOx	NOx	PM
kW < 8 (hp < 11)	Tier 1	2000	8.0 (6.0)	-	10.5 (7.8)	-	1.0 (.75)
	Tier 2	2005	8.0 (6.0)	-	7.5 (5.6)	-	.8 (.6)
	Tier 4	2008	8.0 (6.0)	-	7.5 (5.6)	-	.4 (.3)
8 ≤ kW < 19 (11 ≤ hp < 25)	Tier 1	2000	6.6 (4.9)	-	9.5 (7.1)	-	.8 (.6)
	Tier 2	2005	6.6 (4.9)	-	7.5 (5.6)	-	.8 (.6)
	Tier 4	2008	6.6 (4.9)	-	7.5 (5.6)	-	.4 (.3)
19 ≤ kW < 37 (25 ≤ hp < 50)	Tier 1	1999	5.5 (4.1)	-	9.5 (7.1)	-	.8 (.6)
	Tier 2	2004	5.5 (4.1)	-	7.5 (5.6)	-	.6 (.45)
	Tier 4	2008	5.5 (4.1)	-	7.5 (5.6)	-	.3 (.22)
	Tier 4	2013	5.5 (4.1)	-	4.7 (3.5)	-	.03 (.022)
37 ≤ kW < 75 (50 ≤ hp < 100)	Tier 1	1998	-	-	-	9.2 (6.9)	-
	Tier 2	2004	5.0 (3.7)	-	7.5 (5.6)	-	.4 (.3)
	Tier 3	2008	5.0 (3.7)	-	4.7 (3.5)	-	-
37 ≤ kW < 56 (50 ≤ hp < 75)	Tier 4	2008	5.0 (3.7)	-	4.7 (3.5)	-	.3 (.22)
	Tier 4	2013	5.0 (3.7)	-	4.7 (3.5)	-	.03 (.022)
75 ≤ kW < 130 (100 ≤ hp < 175)	Tier 1	1997	-	-	-	9.2 (6.9)	-
	Tier 2	2003	5.0 (3.7)	-	6.6 (4.9)	-	.3 (.022)
	Tier 3	2007	5.0 (3.7)	-	4.0 (3.0)	-	-
56 ≤ kW < 130 (75 ≤ hp < 175)	Tier 4	2012 - 2014	5.0 (3.7)	.19 (.14)	-	.40 (.30)	.02 (.015)
130 ≤ kW < 225 (175 ≤ hp < 130)	Tier 1	1996	11.4 (8.5)	1.3 (1.0)	-	9.2 (6.9)	.54 (.4)
	Tier 2	2003	3.5 (2.6)	-	6.6 (4.9)	-	.2 (.15)
	Tier 3	2006	3.5 (2.6)	-	4.0 (3.0)	-	-
130 ≤ kW ≤ 560 (175 ≤ hp ≤ 750)	Tier 4	2011 - 2014	5.0 (3.7)	.19 (.14)	-	.40 (.30)	.02 (.015)
225 ≤ kW < 450	Tier 1	1996	11.4 (8.5)	1.3 (1.0)	-	9.2 (6.9)	.54 (.4)

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Enigne Power	Tier	Year	CO	HC	NMHC+NOx	NOx	PM
(300 ≤ hp < 600)	Tier 2	2001	3.5 (2.6)	-	6.4 (4.8)	-	.2 (.15)
	Tier 3	2006	3.5 (2.6)	-	4.0 (3.0)	-	-
450 ≤ kW < 560	Tier 1	1996	11.4 (8.5)	1.3 (1.0)	-	9.2 (6.9)	.54 (.4)
(600 ≤ hp < 750)	Tier 2	2002	3.5 (2.6)	-	6.4 (4.8)	-	.2 (.15)
	Tier 3	2006	3.5 (2.6)	-	4.0 (3.0)	-	-
kW ≥ 560	Tier 1	2000	11.4 (8.5)	1.3 (1.0)	-	9.2 (6.9)	.54 (.4)
(hp ≥ 750)	Tier 2	2006	3.5 (2.6)	-	6.4 (4.8)	-	.2 (.15)