



Standards of Performance for Stationary Compression Ignition (CI) Internal Combustion Engines (ICE) – 40 CFR Part 60, Subpart IIII

Owners/operators of non-emergency engines						
Engines constructed (ordered), modified or reconstructed after July 11, 2005 and manufactured after April 1, 2006 are subject to this subpart. Installation deadlines apply. ¹						
Engines constructed, modified, or reconstructed on or before July 11, 2005 are not subject to this subpart.						
Engine type:	Pre-2007 model year with displacement < 10 L/cylinder	Pre-2007 model year with displacement ≥ 10 and < 30 L/cylinder	≥ 2007 model year with displacement < 30 L/cylinder	Displacement ≥ 30 L/cylinder	Modified or reconstructed with displacement < 30 L/cylinder	Modified or reconstructed with displacement ≥ 30 L/cylinder
Compliance requirements²	<p>§60.4206 Operate and maintain engine that achieve the emission standards as required in §§60.4204 and 60.4205 over the entire life of the engine.</p> <p>§60.4211(a)(1-3) Operate and maintain the engine and control device according to the manufacturer's emission instructions; change only emission settings permitted by the manufacturer; and meet applicable requirements of 40 CFR parts 89, 94 and/or 1068.</p> <p>§60.4211(b) - Purchase certified engine; or keep records of performance test results for a similar engine, or engine manufacturer data, or control device vendor data; or conduct initial performance test.</p> <p>§60.4211(g)(1-3)⁵ If you do not install, configure, operate, and maintain your engine and control device according to the manufacturer's emission instructions, or you change emission settings in a way that is not permitted by the manufacturer.</p>	<p>§60.4206</p> <p>§60.4211(a)(1-3)</p> <p>§60.4211(c) Emission standards specified in §60.4204(b) or §60.4205(b); or purchase engine certified to emission standards; and installed and configured according to the manufacturer's emission-related specifications.</p> <p>§60.4211(g)(1-3)</p>	<p>§60.4206</p> <p>§60.4211(a)(1-3)</p> <p>§60.4211(d)(1-3) - Emission standards specified in §60.4204(c) or §60.4205(d); conduct initial performance test, establish continuously monitored operating parameters, and conduct annual performance tests.</p> <p>§60.4211(g)(1-3)</p>	<p>§60.4206</p> <p>§60.4211(a)(1-3)</p> <p>§60.4211(e)(1-2) - Emission standards specified in §60.4204(e) or §60.4205(f); purchase engine certified to emission standards or conduct initial performance test within 60 days after the engine commences operation after the modification or reconstruction.</p> <p>§60.4211(g)(1-3)</p>		
Fuel requirements⁶	§60.4207(a),(b),(e)			§60.4207(d),(e)		
Monitoring requirements	<p>§60.4209 - If equipped with diesel particulate filter used to comply with emission standards in §60.4204, install backpressure monitor that notifies when high back pressure limit of the engine is approached. You must also meet monitoring requirements in the "Compliance" section (§60.4211).</p>					
Emission standards³	§§60.4204(a) or 60.4205(a) - Table 1	§60.4204(a) - 40 CFR 94.8(a)(1);	§§60.4204(b) or 60.4205(b)	§§60.4204(c)(1-4) or 60.4205(d)	Pre-2007 model year- 60.4205(a) 2007 model year or later - 60.4205(b)	§60.4204(c)(1-4)
Testing requirements	§60.4204(d) and §60.4212			§60.4213	§60.4204(d) and §60.4212	§60.4213
Notification, reports, and records	<p>§60.4214(a) >3000 HP and not certified, or §60.4214(c), if equipped with DPF</p>	<p>§60.4214(a), or §60.4214(c), if equipped with DPF</p>	<p>§60.4214(a) >3000 or > 175 and not certified, or §60.4214(c), if equipped with DPF</p>	<p>§60.4214(a), or §60.4214(c) if equipped with DPF</p>	<p>§60.4214(a) >3000 HP or > 10L/cyl or Pre-2007 model year and > 175 HP and not certified, or §60.4214(c), if equipped with DPF</p>	<p>§60.4214(a), or §60.4214(c) if equipped with DPF</p>



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Owners/operators of non-emergency CI ICE Installation deadlines and footnotes

¹Installation deadlines (§60.4208) Does not apply to CI ICEs that have been modified/reconstructed or that are removed from one location and reinstalled at a new location.	Date to stop installing/importing
Any size CI ICE that does not meet 2007 model year engine requirements (excludes fire pump engines)	Dec. 31, 2008
Stationary CI ICE <25 HP (<19 kW) that does not meet 2008 model year requirements (excludes fire pump engines)	Dec. 31, 2009
Non-emergency stationary CI ICE ≥25 HP (≥19 kW) and <75 HP (<56 kW) that does not meet 2013 model year requirements for non-emergency engines	Dec. 31, 2014
Non-emergency stationary CI ICE ≥75 HP (≥56 kW) and <175 HP (<130 kW) that does not meet 2012 model year requirements for non-emergency engines	Dec. 31, 2013
Non-emergency stationary CI ICE that is ≥175 HP (≥130 kW), including those >750 HP (560 KW), that does not meet 2011 model year requirements for non-emergency engines	Dec. 31, 2012
Non-emergency stationary CI ICE ≥750 HP (≥560 kW) that does not meet 2015 model year requirements for non-emergency engines	Dec. 31, 2016
Non-emergency stationary CI ICE ≥804 HP (≥600 kW) and <2,680 HP (<2,000 kW) with displacement ≥ 10 < 30 liters per cylinder that does not meet 2017 model year requirements for non-emergency engines	Dec. 31, 2018
Any stationary CI ICE with a displacement < 30 liters per cylinder that does not meet the applicable requirements specified §60.4208(a)-(g). [§60.4208(h)]	After dates specified in §60.4208(a)-(g)

Fuel Requirements - §60.4207⁶

Beginning Oct. 1, 2007 [§60.4207a]	Sulfur content. 500 parts per million (ppm) maximum, cetane index of 40; or maximum aromatic content of 35 volume percent.
Beginning Oct. 1, 2010 –CE-ICE < 30L/cyl [§60.4207(b)]	15 ppm maximum for nonroad, cetane index of 40; or maximum aromatic content of 35 volume percent.
Beginning Oct. 1, 2012 - CE-ICE < 30L/cyl [§60.4207(d)]	per-gallon sulfur content of 1,000 ppm

§60.4211(a) — In addition to requirements above, if subject to emission standards in this subpart, operate/maintain engine and control device according to manufacturer's instructions, change only emission-related settings permitted by manufacturer, and meet requirements of 40 CFR parts 89, 94, and/or 1068.

³Emission standards must be achieved over entire life of engine (§60.4203). §60.4204(d) and §60.4205(e) — for engines <30 L/cylinder, if conducting performance tests in-use, meet the not-to-exceed (NTE) standards in §60.4212. §60.4204(e) and §60.4205(f) — Modified or reconstructed engines must meet applicable emission standards (demonstrated by using certified engine or conducting performance test within 60 days after operation).

⁴§60.4200(e) — Additionally, engines acting as temporary replacement units and located at a stationary source for less than 1 year and properly certified as meeting the standards applicable to such engine under appropriate nonroad engine provisions, are not required to meet any other provisions under this subpart with regard to such engines.

⁵§60.4211(g)(1) -(3) —
Engines all HP - keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions
Engine <100 HP - conduct an initial performance test within 1 year of the change in operations.
Engine ≥ 100 ≤ 500 HP - conduct an initial performance test within 1 year of startup, or within 1 year after an engine and control device is no longer installed, configured, operated, or maintained or within 1 year after in change in operations.
Engine > 500 HP - initial performance test within 1 year of startup, or within 1 year after an engine and control device is no longer installed, configured, operated, and maintained in accordance with the manufacturer's emission instructions, or within 1 year after you change emission settings in a way that is not permitted by the manufacturer. You must conduct subsequent performance testing every 8,760 hours of engine operation or 3 years, whichever comes first, thereafter to demonstrate compliance with the applicable emission standards.