

**Texas Commission on Environmental Quality
Table 29 Reciprocating Engines**

I. Engine Data											
Manufacturer: Caterpillar			Model No. C15			Serial No.			Manufacture Date:		
Rebuilds Date:			No. of Cylinders: Inline 6			Compression Ratio: 16:1			EPN: 4		
Application: <input type="checkbox"/> Gas Compression <input checked="" type="checkbox"/> Electric Generation <input type="checkbox"/> Refrigeration <input type="checkbox"/> Emergency/Stand by <input type="checkbox"/> 4 Stroke Cycle <input type="checkbox"/> 2 Stroke Cycle <input type="checkbox"/> Carbureted <input type="checkbox"/> Spark Ignited <input type="checkbox"/> Dual Fuel <input type="checkbox"/> Fuel Injected <input checked="" type="checkbox"/> Diesel <input type="checkbox"/> Naturally Aspirated <input type="checkbox"/> Blower /Pump Scavenged <input checked="" type="checkbox"/> Turbo Charged and I.C. <input type="checkbox"/> Turbo Charged <input type="checkbox"/> Intercooled <input type="checkbox"/> I.C. Water Temperature <input type="checkbox"/> Lean Burn <input type="checkbox"/> Rich Burn											
Ignition/Injection Timing:			Fixed:			Variable:					
Manufacture Horsepower Rating: 475-580						Proposed Horsepower Rating:					
Discharge Parameters											
Stack Height (Feet)			Stack Diameter (Feet)			Stack Temperature (°F)			Exit Velocity (FPS)		
II. Fuel Data											
Type of Fuel: <input type="checkbox"/> Field Gas <input type="checkbox"/> Landfill Gas <input type="checkbox"/> LP Gas <input type="checkbox"/> Natural Gas <input type="checkbox"/> Digester Gas <input checked="" type="checkbox"/> Diesel											
Fuel Consumption (BTU/bhp-hr): 33				Heating Value: 18,390				Lower Heating Value: 18,390			
Sulfur Content (grains/100 scf - weight %): > 15ppm											
III. Emission Factors (Before Control)											
NO_x		CO		SO₂		VOC		Formaldehyde		PM₁₀	
g/hp-hr	ppmv	g/hp-hr	ppmv	g/hp-hr	ppmv	g/hp-hr	ppmv	g/hp-hr	ppmv	g/hp-hr	ppmv
3.5	622	3.5	146								
Source of Emission Factors: <input type="checkbox"/> Manufacturer Data <input type="checkbox"/> AP-42 <input checked="" type="checkbox"/> Other (specify): Diesel Oxidation Catalyst											
IV. Emission Factors (Post Control)											
NO_x		CO		SO₂		VOC		Formaldehyde		PM₁₀	
g/hp-hr	ppmv	g/hp-hr	ppmv	g/hp-hr	ppmv	g/hp-hr	ppmv	g/hp-hr	ppmv	g/hp-hr	ppmv
Method of Emission Control: <input type="checkbox"/> NSCR Catalyst <input type="checkbox"/> Lean Operation <input type="checkbox"/> Parameter Adjustment <input type="checkbox"/> Stratified Charge <input type="checkbox"/> JLCC Catalyst <input type="checkbox"/> Other (Specify): _____											
<i>Note: Must submit a copy of any manufacturer control information that demonstrates control efficiency.</i>											
Is Formaldehyde included in the VOCs?										<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
V. Federal and State Standards (Check all that apply)											
<input type="checkbox"/> NSPS JJJJ <input type="checkbox"/> MACT ZZZZ <input type="checkbox"/> NSPS IIII <input type="checkbox"/> Title 30 Chapter 117 - List County: _____											
VI. Additional Information											
1. Submit a copy of the engine manufacturer's site rating or general rating specification data. 2. Submit a typical fuel gas analysis, including sulfur content and heating value. For gaseous fuels, provide mole percent of constituents. 3. Submit description of air/fuel ratio control system (manufacturer information is acceptable).											

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