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## State of California AIR RESOURCES BOARD

## EXECUTIVE ORDER A-13-122-1

Relating to Certification of New Heavy-Duty Motor Vehicle Engines

## CATERPILLAR, INC

Pursuant to the authority vested in the Air Resources Board by Sections 43100, 43102 and 43103 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-45-9;

IT IS ORDERED AND RESOLVED: That the following 1998 model-year Caterpillar, Inc. diesel-cycle engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 14,000 pounds:

<u>Fuel Type</u>: Diesel

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<u>Engine Family</u>	Engine	Displacement	Exhaust Emission Control
	<u>Liters</u>	(Cubic Inches)	<u>Systems and Special Features</u>
WCPXH0629ERK	10.3	(629)	Turbocharger Charge Air Cooler Engine Control Module

Engine models and codes are listed on attachments.

The following are the certification exhaust emission standards for this engine family in grams per brake horsepower-hour:

Total	Carbon	Nitrogen	<u>Particulates</u>
Hydr <u>ocarbons</u>	<u>Monoxide</u>	<u>Oxides</u>	
1.3	15.5	4.0	0.10

The following are the certification exhaust emission values for this engine family in grams per brake horsepower-hour:

Total	Carbon	Nitrogen	<u>Particulates</u>
Hydrocarbons	<u>Monoxide</u>	<u>Oxides</u>	
0.2	1.1	3.7	0.08

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2035 et seq.). CATERPILLAR, INC.

BE IT FURTHER RESOLVED: That the aforementioned engine family has been conditionally certified subject to the following conditions:

- Any engine which employs a defeat device shall not be covered by 1. this Executive Order.
- Within 120 days following the issuance of Executive Order A-13-122, the manufacturer must show cause, to the satisfaction of the 2. Executive Officer or his designee, that the strategy for fuel injection timing, including timing during the fuel economy mode, is not a defeat device.

Engines certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and Executed at El Monte, California this \_\_\_\_\_ da

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R. B. Summerfield, Chief Mobile Source Operations Division

day of February 1998.

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Manufacturer: CATERPILLARINC.

EPA Engine Family: WCPXH0629ERK

Manufacturer Family Name:

Process Code: New Submission

7.Fuel Rate: mm/stroke@peak NA

EPA Engine Fan	EPA Engine Family: WCPXH0629EKK	ZHEKK	4.Fuel Rate:	5.Fuel Rate:		7.Fuel Rate:	R Find Rate:	9 Emission Control
•	aboM ocine 1 o	3.BHP@RPM	mm/stroke @ peak HP (for diesel only)	(lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	mm/stroke@peak torque	(Ibs/hr)@peak torque	ΔĮ
1.Engine Code		(ave)						
				Due to product-	ion engine avos.	these fuel rates	may change.	
Nota: Peak HP	and Peak Torque	fuel rates are	nominal values.	Due to plound	0001 @ 1201	070	97.0	EM, DI, TC, ECM,
	C - 10	370 @ 1800	195	11/.8	1330 @ 1200		07.0	EN DOAC FOM
1 - Centengine		270 @ 1800	195	117.8	1350 @ 1200	240	0. JD	
7	C-10		107	116.0	1350 @ 1200	240	97.0	
G	c - 10	0001 @ C9E	701	110.5	1350 @ 1200	240	97.0	EM, DIGRG, ECM,
4	C - 10	350 @ 1800	201	1110	1250 @ 1200	220	89.0	EM, DICRG, ECM,
5	C-10	350 @ 1800	103	105.0	1250 @ 1200	220	89.0	EM, DICHC, ECM,
g	C - 10	335 @ 1800	1/5	0.01	1200 @ 1200	070	0.79	EM. DICHC, ECM,
<u> </u>	C-10	335 @ 1800	175	105.8	0071 m nes1	000	80.0	FM DICAC ECM.
		350 @ 1800	183	111.0	0021 @ 0621	777	0.00	
89	c- 10		175	105.8	1350 @ 1200	240	97.0	
6	C - 10	335 @ 1800	173	105.8	1250 @ 1200	220	89.0	EM, DICRC, ECM,
10	C - 10	335 @ 1800	c/1	100.00	1150 @ 1200	203	82.0	EM, DICRC, ECM,
11	C - 10	305 @ 1800	60	000	1050 @ 1200	186	75.0	EM, DICRC, ECM,
12	C - 10	305 @ 1800	104	33.0	1450 @ 1200	203	82.0	EM, DICAC, ECM,
	C - 10	305 @ 1800	158	40.4		000	R2 0	EM DICAS ECM.
2		205 @ 1800	165	100.00	1150 @ 1200	203	0.20	
14	01-0	303 @ 1000	164	0.66	1050 @ 1200	186	75.0	EM, UNAV, EUM,
15	C-10			05.4	1150 @ 1200	203	82.0	EM, DICRG, ECM,
16	C - 10	305 @ 1800	001	t ne				CAC