#### State of California AIR RESOURCES BOARD

## Relating to Certification of New Motor Vehicle Engines

### CATERPILLAR TRACTOR COMPANY

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-45-3;

IT IS ORDERED AND RESOLVED: That the following Caterpillar Tractor Company 1982 model-year diesel engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating greater than 8500 pounds:

Engine Family	Displacement Cubic Inches (Liters)	Exhaust Emission Control Systems (Special Features)
CCT1099FPA4	1099 (18.0)	Engine Modification (Turbocharger, Aftercooler)
CCT0636DCAX	635 (10.4)	Exhaust Gas Recirculation
CCT0638FPAX	638 (10.5)	Engine Modification (Turbocharger, Aftercooler)
CCT0893FPAX	893 (14.6)	Engine Modification (Turbocharger, Aftercooler)
ССТО636ЕРАХ	636 (10.4)	Engine Modification (Turbocharger)

Engine Models and Codes as listed on attachments.

Section 43200, Part 5, Division 26 of the California Health and Safety Code requires that the engine manufacturer furnish a decal with each engine sold or delivered to a vehicle manufacturer. The decal shall display the applicable model year heavy-duty engine exhaust emission standards and the following certification emission values:

Engine Family	Hydrocarbons gm/bhp-hr	Carbon Monoxide gm/bhp-hr	Hydrocarbons + Nitrogen Oxides gm/bhp-hr
CCT1099FPA4 CCT0636DCAX CCT0638FPAX CCT0893FPAX CCT0636EPAX	0.1 0.6 0.2 0.4 0.6	1 6 2 2 2 3	4.8 5.4 5.4 4.5 5.7

BE IT FURTHER RESOLVED: That Caterpillar Tractor Company has provided to the Executive Officer all material required to demonstrate certification compliance with the Board's emission control system warranty regulations (Title 13, California Administrative Code, Section 2036).

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 attachment.

Executed at El Monte, California, this 4th day of August, 1981.

K. D. Drachand, Chief

Mobile Source Control Division

### 1982 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer Caterpillar Tractor (	Co.Executive Order No. <u>A-13-34</u>	Page 1
Engine Family	Evaporative Family N/A	
	Engine CID (Liters)	
ABBREVIATIONS		<del></del>
Ignition System CA-Centrifugal Advance EEC-Electronic Engine Control EI-Electronic Ignition ESAC-Electronic Spark Advance Control VA-Vacuum Advance VR-Vacuum Retard  Fuel System CFI, CL, DID, DIP, EFI, MFI nV-nVenturi Carburetor VV-Variable Venturi	Exhaust Emissions Control System AIP-Air Injection-Pump AIV-Air Injection-Valve CL-Closed Loop EGR-Exhaust Gas Recirculation EM-Engine Modification OC-Oxidation Catalyst System TR-Thermal Reactor TWC-Three Way Catalyst System	Special Features CCV-Combustion Chamber Valve CFI-Central Fuel Injection DID-Diesel Injection- Direct DIP-Diesel Injection- Prechamber  MFI-Mechanical Fuel Injection TC-Turbocharged
Engine Family	Engine Model	
CCT1099FPA4	3408	
CCT0636DCAX	3208	
CCT0638FPAX	3306	

3208--Code B

3406--Code C

CCT0893FPAX

CCT0636EPAX

Manufacturer_	Caterpillar Tractor Company         Page         2           CCT1099FPA4         CID(Liter)-Type         1099 (18.0) V8					
Engine Family_						
	atures <u>) EM (TC. A</u>	AC)		7005 (10.	07 10	
Engine Model	Fuel Injection Pump Mfr. Part Number	Injector Mfr. Part Number	Maximum Rated HP and RPM	Fuel Rate at Maximum 3 <sup>HP</sup> mm <sup>3</sup> /stroke	Label Ident.	
3408	Caterpillar 9N3326	Caterpillar 7N9843	450 @ 2100	191		
	ļ		425 @ 2100	179		
			400 @ 2100	169		
			425 @ 1950	191		
			400 @ 1950	179		

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Engine Family CCT0636DCAX CID(Liter)-Type 636 (10.4) V8  ECS (Special Features) EGR						
Engine Model	Fuel Injection Pump Mfr. Part Number	Injector Mfr. Part Number	Maximum Rated HP and RPM	Fuel Rate at Maximum <sup>3</sup> HP mm <sup>3</sup> /stroke	Label Ident.	
3208	Caterpillar 8N5642*	Caterpillar 1W5829	200 @ 2800 175 @ 2800	63 54		
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Manufacturer_	Caterpillar Trac	tor Company		Page 4	1
Engine Family_			CID(Liter)-T	ype <u>638 (10.5</u>	
ECS (Special Fea	atures <u>) EM (TC,</u>	AC)		JPC	7 10
Engine Model	Fuel Injection Pump Mfr. Part Number	Injector Mfr. Part Number	Maximum Rated HP and RPM	Fuel Rate at Maximum <sup>HP</sup> mm <sup>3</sup> /stroke	Label Ident.
3306	Caterpillar 6N5359*	Caterpillar 9N2845	270 @ 2200	148	
			270 @ 2100	154	
	Tools		245 @ 2200	134	
	Turbocharger 9N1289 9N1287				

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\*Revisions-10/22/81:Corr'ns to fuel pump P/Ns

Manufacturer_	Caterpillar Tracto	r Tractor Company Page 5			5
Engine Family_	CCT0893FPAX		CID(Liter)-T	ype <u>893 (14.</u> 6	5) 16
ECS(Special Fe	eatures) EM (TC, A	AC)			
Engine Model	Fuel Injection Pump Mfr. Part Number	Injector Mfr. Part Number	Maximum Rated HP and RPM	Fuel Rate at Maximum HP mm <sup>3</sup> /stroke	Label Ident.
3406 Code C	Caterpillar 9N6102	Caterpillar 9L6884	380 @ 2100	210	
			300 @ 2100	166	
			300 @ 1900	177	
	Turbocharger Airesearch 9N6301 9N6302 9N2702 9N2703		350*@ 1800	214*	

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uifacturer	CATE	Page6			
Engine Family	lyCCT0636EPAX			CID(Liter)-Type	
ECS (Special H	Features) <u>EM (1</u>	C)			
Engine Model	Fuel Injection Pump Manufacturer Part Number	Injector Manufacturer Part Number	Maximum Rated HP and RPM	Fuel Rate at Maximum HP mm <sup>3</sup> /stroke	Label Identification
3208 CODE B	Fuel Injection Pump 1W6742	Stanadyne 1W5829	210 HP @ 2600	77 @ 2600	2W0360
	Turbocharger Airesearch 1W7271		200 HP @ 2600	73 @ 2600	
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