

Certified Equipment List - EPA Tier 3 Emission Standards
Mitigation Measure AQ-1, Mitigated Negative Declaration
Interim Removal Measure, Ascon Landfill, Huntington Beach, California

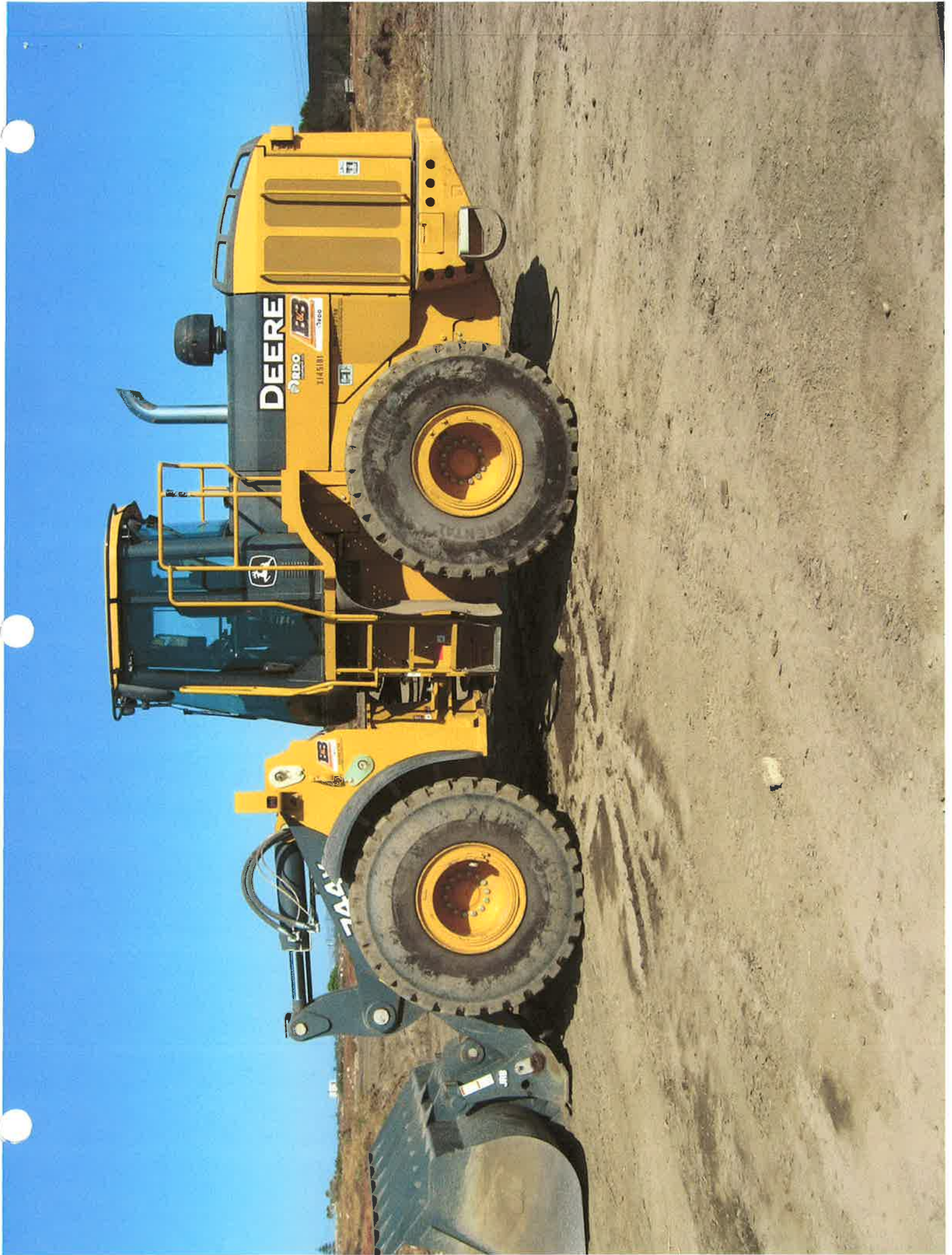
Number	Equipment Type	Model	ID #	ID # Location	Horsepower Rating (Approx.)	>50 hp Rating?	Tier 3 Certified? ^a	Tier 3 Documentation Available? ^b	Additional Notes
1	Wheel Loader	JD 744K	DW744KX623522	John Deere placard	265	yes	yes	yes	horsepower from John Deere website
2	Excavator	JD 450D LC	FF450DX913616	John Deere placard	348	yes	yes	yes	horsepower from John Deere website
3	Excavator	JD 350D LC	FF350DX806389	John Deere placard	271	yes	yes	yes	horsepower from John Deere website
4	Excavator	CAT 330D	CAT0330DEB6H00304	Caterpillar placard	270	yes	yes	yes	horsepower from Caterpillar website
5	Backhoe	JD 410J	T0410JX178969	John Deere placard	98	yes	yes	yes	horsepower from John Deere website
6	Pneumatic Foam Unit	D185Q	143999	CalEPA placard	80	yes	compliant	compliant	Tier 3 equivalent (not applicable for portable equipment)
7	Excavator	JD 350D LC	FF350DX805958	John Deere placard	271	yes	yes	yes	horsepower from John Deere website
8	Water Truck	F750	8N10834	license plate	215	yes	not applicable	not applicable	Tier 3 not applicable for on-road equipment, MY 2007
9	Water Truck	Business Class M2	8F71910	license plate	260	yes	not applicable	not applicable	Tier 3 not applicable for on-road equipment, MY 2007
10	Excavator	JD 270D LC	FF270DX703639	John Deere placard	188	yes	yes	yes	horsepower from John Deere website
11	Wheel Loader	CAT 972H	CAT0972HPA7D00150	Caterpillar placard	287	yes	yes	yes	horsepower from Caterpillar website
12	Dozer	CAT D6R	THX00694	Caterpillar placard	185	yes	yes	yes	horsepower from Caterpillar website
13	Water Truck	Ford	8N10833	license plate	215	yes	not applicable	not applicable	Tier 3 not applicable for on-road equipment, MY 2007

Notes:

a Tier 3 Certification only required for engines \geq 50 hp. Certification may be based on engine retrofit or manufacturer data.

b Documentation requires manufacturer data spec sheet or proof of engine retrofit. Copy of documentation must be stored on-site and made available upon request.

c Assumes 5-day work week



JOHN DEERE

Product Identification Number

DW744KX623522



LOADER

DEERE & COMPANY MOLINE, ILLINOIS Made In USA

This product was built at the
John Deere Davenport Works, a facility with
an ISO 9001 Registered Quality System



CERTIFICATE #
000990

X145181

744K

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Base Code:	N/A	Rating:	6090HDW06
Model No:	6090HDW06	EPA Family:	8JDXL09.0102
Manufactured Date:	Sep 12, 2008	EUR Family:	8JDXL09.0102
Emission Label Part No:	R527239	EPA Certificate:	JD-X-NR-CI-08-01
Parts Catalog No:	PC8476	CARB Certificate:	U-R-004-0317

[Click here](#) to view additional emission information

Option Name	Ordered	Production	Distributor
Rocker Arm Cover	*	1107	*
Crankshaft Pulley & Dampener	*	1303	*
Flywheel Housing	*	1401	*
Flywheel	*	1506	*
Fuel Injection Pump/System	*	1603	*
Air Inlet/Intake	*	1701	*
Oil Pan	*	1911	*
Water Pump	*	2001	*
Thermostat Cover	*	2107	*
Thermostat	*	2201	*
Coolant Heater/Block Heater	*	2699	*
Exhaust Manifold	*	2802	*
Ventilating System	*	2901	*
Starting Motor	*	3003	*
Fuel Filter and Lines	*	3502	*
Thermostat Housing/Expansion Tank (Marine)	*	3902	*
Oil Dipstick	*	4003	*
Starting Aid/Heater - Air Intake	*	4397	*
Cylinder Block	*	4601	*
Crankshaft and Bearings	*	4701	*
Connecting Rods and Pistons	*	4801	*
Valve Actuating Mechanism	*	4901	*
Oil Pump	*	5001	*
Cylinder Head With Valves	*	5101	*
Gear-Driven Auxiliary Drive	*	5203	*
Paint	*	5604	*
Water Pump Inlet	*	5701	*
Oil Cooler and Filter	*	5922	*
Alternator Mounting	*	6293	*

 AIR RESOURCES BOARD	John Deere Power Systems	EXECUTIVE ORDER U-R-004-0317 New Off-Road Compression-Ignition Engines
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Pursuant to the authority vested in the Air Resources Board by Sections 43013, 43018, 43101, 43102, 43104 and 43105 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-02-003;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engines and emission control systems produced by the manufacturer are certified as described below for use in off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)
2008	8JDXL09.0102	9.0	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Turbocharger, Charge Air Cooler, Electronic Control Module, Smoke Puff Limiter, Exhaust Gas Recirculation			Loader, Tractor, Dozer, Pump, Compressor, Generator Set, Other Industrial Equipment	

The engine models and codes are attached.

The following are the exhaust certification standards (STD), or family emission limit(s) (FEL) as applicable, and certification levels (CERT) for hydrocarbon (HC), oxides of nitrogen (NO_x), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NO_x), carbon monoxide (CO), and particulate matter (PM) in grams per kilowatt-hour (g/kw-hr), and the opacity-of-smoke certification standards and certification levels in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family (Title 13, California Code of Regulations, (13 CCR) Section 2423):

RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			HC	NO _x	NMHC+NO _x	CO	PM	ACCEL	LUG	PEAK
130 ≤ kW < 225	Tier 3	STD	N/A	N/A	4.0	3.5	0.20	20	15	50
225 ≤ kW < 450	Tier 3	STD	N/A	N/A	4.0	3.5	0.20	20	15	50
		FEL	N/A	N/A	3.9	—	0.17	—	—	—
		CERT	—	—	3.6	0.5	0.12	8	4	32


BE IT FURTHER RESOLVED: That the family emission limit(s) (FEL) is an emission level declared by the manufacturer for use in any averaging, banking and trading program and in lieu of an emission standard for certification. It serves as the applicable emission standard for determining compliance of any engine within this engine family under 13 CCR Sections 2423 and 2427.

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

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

This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.

Executed at El Monte, California on this 14th day of December 2007.


Annette Hebert, Chief
Mobile Source Operations Division



JOHN DEERE

Product Identification Number

1J4500X91361013

EXCAVATOR

DEERE & COMPANY Moline, Illinois
MADE IN JAPAN

AH-6WG1XYS-A-01
 BC/AH
 ISUZU MOTORS LTD.
 MADE IN JAPAN
ISUZU

国土交通省型式指定番号 国 GS-334
指定に係る 酸化炭素等発散防止装置
いすゞ GWG1XDHA デーゼル機関
ENGINE ID NUMBER: 6G1-609618
GS334

ISUZU

ENGINE FAMILY: 8520L-5, 7000L
ENGINE CODE: 6N01ADAL-03
MODEL: AH-ENG1X
ENGINE DISPLACEMENT: 156201 cm³
EXHAUST EMISSION CONTROL SYSTEM
EOM, TC, CAC, DEF, EGR

IMPORTANT ENGINE INFORMATION
1. MADE IN JAPAN
2. ADVERTISED HORSE POWER
3. SEE METRIC DISSENGAGE
4. 260.0 HP / 1800 RPM
5. FUEL RATE: 204.9 mm³/s
6. VALVE LASH (C/L) 0.40-0.4 mm
7. INITIAL INJECTION TIMING: 18° BTDC
8. CRANK IDLE: 900 RPM


THIS ENGINE IS CERTIFIED TO
OPERATE ON DIESEL FUEL
THIS ENGINE CONFORMS TO 2000 MODEL YEAR U.S. EPA NON-ROAD
DIESEL ENGINES AND CALIFORNIA OFF-ROAD CI ENGINES
REGISTRATION MODEL SPECIFICATION SEE SERVICE MANUAL

THIS ENGINE IS CONFORMED 97/68/EC DIRECTIVE
ENGINE FAMILY: 6N01ADHA
ENGINE TYPE: 6N01ADHA
TYPE APPROVAL NUMBER: #1297/68HA+2000/250/116+00

052000

Year	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	

10

 CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY AIR RESOURCES BOARD	ISUZU MOTORS LIMITED	EXECUTIVE ORDER U-R-006-0276 New Off-Road Compression-Ignition Engines
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Pursuant to the authority vested in the Air Resources Board by Sections 43013, 43018, 43101, 43102, 43104 and 43105 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-02-003;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engines and emission control systems produced by the manufacturer are certified as described below for use in off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)
2008	8SZXL15.7HXA	15.7	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Turbocharger, Charge Air Cooler, Electronic Control Module, Exhaust Gas Recirculation			Excavator, Other Industrial Equipment	

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for hydrocarbon (HC), oxides of nitrogen (NOx), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NOx), carbon monoxide (CO), and particulate matter (PM) in grams per kilowatt-hour (g/kW-hr), and the opacity-of-smoke certification standards and certification levels in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family (Title 13, California Code of Regulations, (13 CCR) Section 2423):

RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kW-hr)					OPACITY (%)		
			HC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
225 ≤ kW < 450	Tier 3	STD	N/A	N/A	4.0	3.5	0.20	20	15	50
		CERT	--	--	3.6	0.8	0.17	17	8	30

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

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

This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.

Executed at El Monte, California on this 13 day of September 2007.

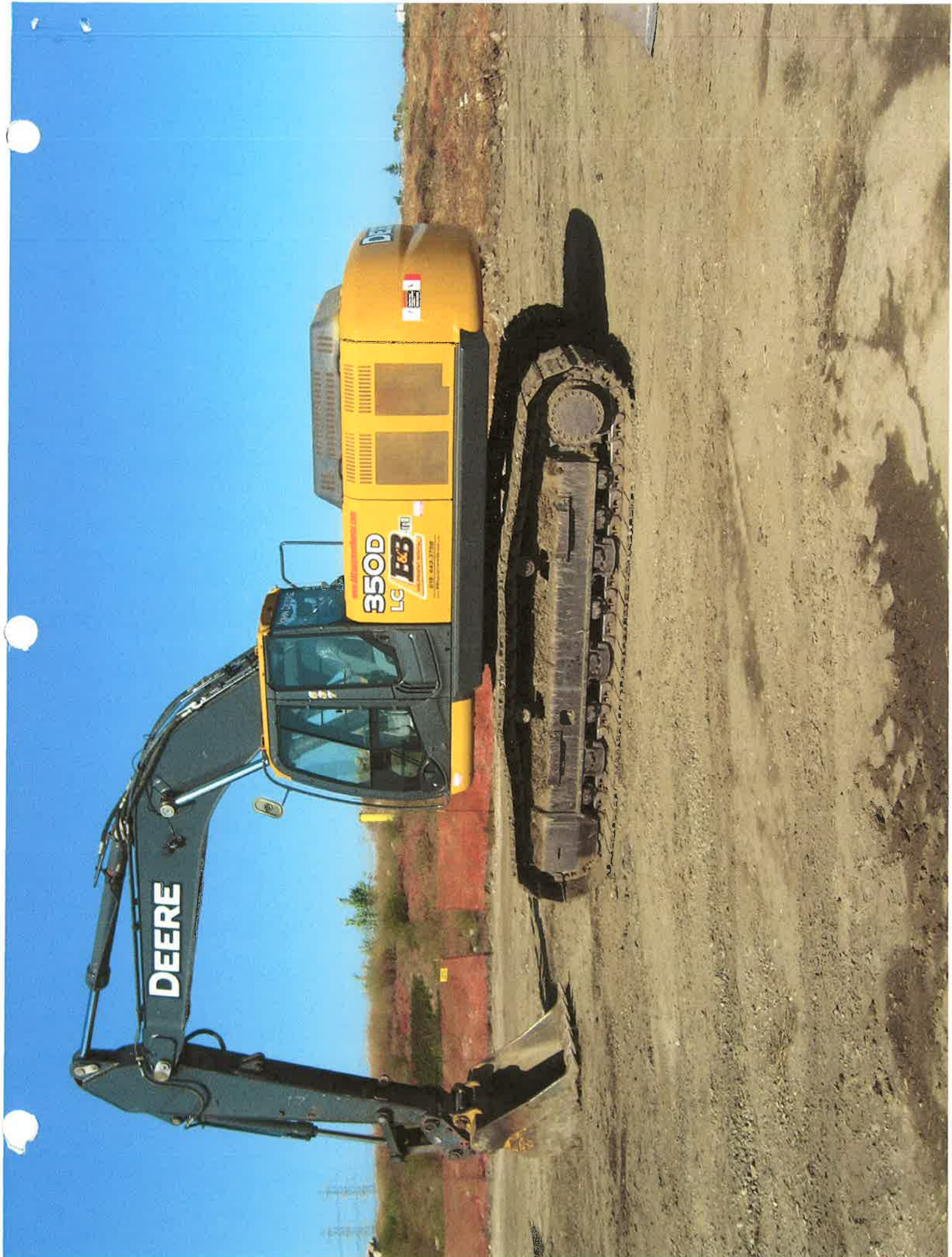

Annette Hebert, Chief
Mobile Source Operations Division

Engine Model Summary Template

U-R-006-0276

ATTACHMENT

Engine Family	1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque Device Per SAE J1931	9.Emission Control
8SZXL15.7HXA	6WG1XDHAA-01	AH-6WG1X	532.4@1800	304.1@1800	182.6@1800	1660@1500	340.4@1500	170.3@1500	ECM,TC,CAC,D FI,EGR
8SZXL15.7HXA	6WG1XDHAA-02	AH-6WG1X	462.6@1800	269.3@1800	161.7@1800	1460@1500	291.3@1500	145.8@1500	ECM,TC,CAC,D FI,EGR
8SZXL15.7HXA	6WG1XDHAA-03	AH-6WG1X	348.7@1800	204.9@1800	123.0@1800	1165@1500	245.6@1500	122.9@1500	ECM,TC,CAC,D FI,EGR



JOHN DEERE

Product Identification Number

F850DX806389



EXCAVATOR

DEERE & COMPANY MOLINE, ILLINOIS

350DLC

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Information[New Search](#)[Help Information](#)**Engine Serial Number: RG6090L033156****Vehicle Serial Number: FF350DX806389**

Base Code:	N/A	Rating:	6090HT002
Model No:	6090HT002	EPA Family:	8JDXL09.0102
Manufactured Date:	Jan 25, 2008	EUR Family:	8JDXL09.0102
Emission Label Part No:	R527217	EPA Certificate:	JDX-NRCI-08-01
Parts Catalog No:	PC8478	CARB Certificate:	U-R-004-0317

[Click here](#) to view additional emission information

Option Name	Ordered	Production	Distributor
Rocker Arm Cover	*	1106	*
Crankshaft Pulley & Dampener	*	1312	*
Flywheel Housing	*	1405	*
Flywheel	*	1543	*
Fuel Injection Pump/System	*	1603	*
Air Inlet/Intake	*	1701	*
Oil Pan	*	1903	*
Water Pump	*	2001	*
Thermostat Cover	*	2107	*
Thermostat	*	2201	*
Fan Belt	*	2430	*
Coolant Heater/Block Heater	*	2699	*
Exhaust Manifold	*	2802	*
Ventilating System	*	2907	*
Starting Motor	*	3003	*
Alternator	*	3102	*
Fuel Filter and Lines	*	3509	*
Thermostat Housing/Expansion Tank (Marine)	*	3902	*
Oil Dipstick	*	4013	*
Starting Aid/Heater - Air Intake	*	4397	*
Cylinder Block	*	4601	*
Crankshaft and Bearings	*	4701	*
Connecting Rods and Pistons	*	4801	*
Valve Actuating Mechanism	*	4901	*
Oil Pump	*	5001	*
Cylinder Head With Valves	*	5101	*
Gear-Driven Auxiliary Drive	*	5212	*
Shipping Stand	*	5513	*
Paint	*	5604	*

EQ # 634-637-639

 AIR RESOURCES BOARD	John Deere Power Systems	EXECUTIVE ORDER U-R-004-0317 New Off-Road Compression-Ignition Engines
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MODEL YEAR	ENGINE FAMILY	DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)
2008	8JDXL09.0102	9.0	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Turbocharger, Charge Air Cooler, Electronic Control Module, Smoke Puff Limiter, Exhaust Gas Recirculation			Loader, Tractor, Dozer, Pump, Compressor, Generator Set, Other Industrial Equipment	

The engine models and codes are attached.

The following are the exhaust certification standards (STD), or family emission limit(s) (FEL) as applicable, and certification levels (CERT) for hydrocarbon (HC), oxides of nitrogen (NO_x), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NO_x), carbon monoxide (CO), and particulate matter (PM) in grams per kilowatt-hour (g/kw-hr), and the opacity-of-smoke certification standards and certification levels in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family (Title 13, California Code of Regulations, (13 CCR) Section 2423):

RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			HC	NO _x	NMHC+NO _x	CO	PM	ACCEL	LUG	PEAK
130 ≤ kW < 225	Tier 3	STD	N/A	N/A	4.0	3.5	0.20	20	15	50
225 ≤ kW < 450	Tier 3	STD	N/A	N/A	4.0	3.5	0.20	20	15	50
		FEL	N/A	N/A	3.9	—	0.17	—	—	—
		CERT	—	—	3.6	0.5	0.12	8	4	32

BE IT FURTHER RESOLVED: That the family emission limit(s) (FEL) is an emission level declared by the manufacturer for use in any averaging, banking and trading program and in lieu of an emission standard for certification. It serves as the applicable emission standard for determining compliance of any engine within this engine family under 13 CCR Sections 2423 and 2427.

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Executed at El Monte, California on this 14th day of December 2007.


 Annette Hebert, Chief
 Mobile Source Operations Division

OFF-ROAD CERTIFICATION DATABASE

This database contains information submitted to the Air Resources Board from manufacturers. The Air Resources Board has reviewed this information and believes it to be accurate, but does not assume any responsibility for any errors or inaccuracies that may exist herein. The Air Resources Board may revise the information contained in this document at any time.

2008 Model Year Certified Offroad Compression-Ignition Engines (Diesel) - Regular

This page updated July 24, 2008

NEW: Executive Orders added/updated within the past 14 days.

JOHN DEERE POWER SYSTEMS

Executive Order	Engine Family	Max. Disp. (liter)	Min. Power (kW)	Max. Power (kW)	Application	Certification Level (g/kW-hr)				
						HC	NOx	NMHC + NOx	CO	PM
U-R-004-0311	8JDXL06.8101	6.8	85	236	Loader, Tractor, Pump, Compressor, Generator, Other Industrial Equipment	—	—	3.4	0.6	0.11
U-R-004-0312	8JDXL06.8104	6.8	138	177	Loader, Tractor, Pump, Compressor, Generator, Other Industrial Equipment	—	—	3.6	1.3	0.18
U-R-004-0312-1	8JDXL06.8104	6.8	138	177	Loader, Tractor, Pump, Compressor, Generator, Other Industrial Equipment	—	—	3.6	1.3	0.18
U-R-004-0313	8JDXL06.8105	6.8	78	129	Loader, Tractor, Pump, Compressor, Generator, Other Industrial Equipment	—	—	3.4	1.5	0.25
U-R-004-0314	8JDXL06.8106	6.8	56	74	Tractor, Pump, Compressor, Generator, Other Industrial Equipment	—	—	4.1	1.4	0.2
U-R-004-0315	8JDXL04.5111	4.5	64	74	Pump, Compressor, Generator, Other Industrial Equipment	—	—	4	0.8	0.3
U-R-004-0316	8JDXL04.5107	4.5	63	74	Pump, Compressor, Generator	—	—	4.1	2.3	0.19
U-R-004-0317	8JDXL09.0102	9	82	330	Loader, Tractor, Dozer, Pump, Compressor, Generator	—	—	3.6	0.5	0.12
U-R-004-0318	8JDXL13.5103	13.5	261	470	Pump, Compressor, Generator, Other Industrial Equipment	—	—	3.4	0.6	0.1
U-R-004-0319	8JDXL06.8038	6.8	186	186	Tractor, Pump, Compressor, Generator, Other Industrial Equipment	—	—	6.2	0.8	0.18
U-R-004-0320	8JDXL06.8049	6.8	168	205	Pump, Compressor, Generator, Other Industrial Equipment	—	—	5.8	0.9	0.13

Engine Model Summary Form

U-R-004-0317

Attachment p. 1 of 7.

Manufacturer: John Deere Power Systems
 Engine category: Nonroad CI
 Engine Family: 8JDXL09.0102
 Ty Name: 450HAA
 Code: Re-Submission

1. Engine Code	2. Engine Model	3. HP @ RPM (SAE Gross)	4. Fuel Rate: mm/stroke @ peak HP (for diesel only)	5. Fuel Rate: (lb/hr) @ peak HP (for diesel only)	6. Torque @ RPM (SEA Gross)	7. Fuel Rate: mm/stroke @ peak torque	8. Fuel Rate: (lb/hr) @ peak torque	9. Emission Control Device Per SAE J1900
6090HF485Q	6090H	250.76@2200	118.40@2200	88.45@2200	885.70@1500	178.1@1500	90.57@1500	EM EGR EC
6090HF485P	6090H	250.76@2200	117.10@2200	86.86@2200	807.53@1500	180.3@1500	81.09@1500	EM EGR EC
6090H4001	6090H	324.53@2200	149.20@2200	110.74@2200	1084.81@1600	202.8@1600	109.35@1600	EM EGR EC
6090HT001B	6090H	217.25@2100	105.80@2100	74.96@2100	733.78@1575	144.4@1575	76.72@1575	EM EGR EC
6090HZ003A	6090H	383.54@2200	176.70@2200	132.50@2200	1083.84@1600	205.5@1600	110.60@1600	EM EGR EC
6090HRW20	6090H	219.83@2100	107.30@2100	76.00@2100	741.89@1575	150@1575	79.66@1575	EM EGR EC
6090HRW21A	6090H	276.9@2100	133.90@2100	84.30@2100	978.41@1575	197.5@1575	104.86@1575	EM EGR EC
6090HRW21B	6090H	242.73@2100	115.80@2100	82.10@2100	821.54@1575	184.1@1575	87.13@1575	EM EGR EC
6090HRW22	6090H	303.05@2100	141.80@2100	100.40@2100	1081.21@1575	197.8@1575	105.01@1575	EM EGR EC
6090HF485U	6090H	225.30@2000	113.50@2000	78.57@2000	807.53@1500	180.5@1500	81.18@1500	EM EGR EC
6090HF485B	6090H	375.99@2200	172.30@2200	127.89@2200	1147.50@1500	211.7@1500	107.13@1500	EM EGR EC
6090HF485C	6090H	350.01@2200	181.10@2200	119.80@2200	1146.76@1500	211.9@1500	107.41@1500	EM EGR EC
6090HF485D	6090H	350.01@2200	181.10@2200	119.52@2200	1146.76@1500	211.9@1500	107.21@1500	EM EGR EC
6090HF485G	6090H	324.53@2200	150.40@2200	111.65@2200	1146.76@1500	211.8@1500	107.19@1500	EM EGR EC
6090HDW01	6090H	312.48@2100	149.50@2100	105.91@2100	1047.84@1500	198.5@1500	99.54@1500	EM EGR EC
6090HF485S	6090H	225.30@2200	107.80@2200	80.03@2200	725.87@1500	142.5@1500	72.07@1500	EM EGR EC
6090HF485T	6090H	225.30@2200	106.60@2200	79.08@2200	807.53@1500	180.3@1500	81.07@1500	EM EGR EC
6090HTJ02	6090H	214.57@2000	110.20@2000	74.39@2000	829.85@1400	181.1@1400	78.20@1400	EM EGR EC
6090HTJ05	6090H	241.39@2000	123.70@2000	83.85@2000	907.08@1400	178.7@1400	83.48@1400	EM EGR EC
6090HD005A	6090H	383.54@2200	178.70@2200	132.50@2200	1083.34@1600	205.5@1600	110.90@1600	EM EGR EC
6090H4005B	6090H	352.89@2200	182.30@2200	120.30@2200	994.11@1600	198.6@1600	107.10@1600	EM EGR EC
6090HF485Y	6090H	307.10@1800	142.10@1800	101.46@1800				EM EGR EC
6090HF485V	6090H	422.43@1800	222.00@1800	140.86@1800				EM EGR EC
6090HT001A	6090H	199.15@2100	98.10@2100	68.08@2100	672.57@1575	132.1@1575	70.18@1575	EM EGR EC
6090H4001	6090H	324.53@2200	150.40@2200	111.65@2200	1084.81@1600	202.8@1600	109.35@1600	EM EGR EC
6090HRW31	6090H	299.05@2100	141.10@2100	98.94@2100	976.41@1600	191.7@1600	103.40@1600	EM EGR EC
6090HRW34	6090H	299.05@2100	141.10@2100	98.94@2100	976.41@1600	191.7@1600	103.40@1600	EM EGR EC
6090HF485A	6090H	417.06@2200	191.00@2200	141.85@2200	1231.57@1575	231@1575	122.65@1575	EM EGR EC
6090HF485V	6090H	384.88@1800	179.80@1800	128.91@1800				EM EGR EC
6090HF485H	6090H	324.53@2000	181.80@2000	109.15@2000	1146.76@1500	211.9@1500	107.21@1500	EM EGR EC
6090HF485I	6090H	300.39@2200	138.40@2200	102.87@2200	1051.83@1500	195.3@1500	98.81@1500	EM EGR EC
6090HZ003B	6090H	352.89@2200	182.30@2200	120.38@2200	994.11@1600	198.6@1600	107.10@1600	EM EGR EC
6090HZ003C	6090H	327.21@2200	151.70@2200	112.57@2200	913.45@1600	181.9@1600	97.75@1600	EM EGR EC
6090HRW37	6090H	299.05@2100	141.10@2100	98.94@2100	976.41@1600	191.7@1600	103.40@1600	EM EGR EC
6090HRW23A	6090H	331.21@2100	153.80@2100	110.13@2100	1181.27@1575	210.5@1575	111.65@1575	EM EGR EC
6090HRW23B	6090H	303.05@2100	141.80@2100	100.40@2100	1081.21@1575	197.8@1575	105.01@1575	EM EGR EC
6090HF485X	6090H	345.36@1800	181.20@1800	115.33@1800				EM EGR EC
6090HF485F	6090H	324.53@2200	150.80@2200	111.89@2200	1051.83@1500	192.4@1500	97.38@1500	EM EGR EC
6090HF485J	6090H	300.39@2200	138.40@2200	102.87@2200	1051.83@1500	195.3@1500	98.81@1500	EM EGR EC
6090HF485K	6090H	300.39@2000	149.80@2000	100.95@2000	1051.83@1500	195.4@1500	98.88@1500	EM EGR EC
6090HF485M	6090H	274.91@2200	125.70@2200	93.85@2200	885.70@1500	178.1@1500	90.08@1500	EM EGR EC
6090HF485N	6090H	274.91@2200	125.30@2200	93.04@2200	968.29@1500	197.3@1500	99.78@1500	EM EGR EC
6090HF485O	6090H	274.91@2000	139.30@2000	91.86@2000	968.29@1500	198.5@1500	100.38@1500	EM EGR EC
6090HZ002	6090H	402.31@2200	183.80@2200	138.29@2200	1143.07@1600	216.1@1600	116.85@1600	EM EGR EC
6090HRW44	6090H	299.05@2100	141.10@2100	98.94@2100	976.41@1600	191.7@1600	103.40@1600	EM EGR EC
6090HRW33	6090H	374.15@2100	175.80@2100	124.45@2100	1182.16@1600	222.9@1600	120.29@1600	EM EGR EC
6090HRW36	6090H	374.15@2100	175.80@2100	124.45@2100	1182.16@1600	222.9@1600	120.29@1600	EM EGR EC
6090HRW39	6090H	374.15@2100	175.80@2100	124.45@2100	1182.16@1600	222.9@1600	120.29@1600	EM EGR EC
6090HRW42	6090H	374.15@2100	175.80@2100	124.45@2100	1182.16@1600	222.9@1600	120.29@1600	EM EGR EC
6090HRW45	6090H	374.15@2100	175.80@2100	124.45@2100	1182.16@1600	222.9@1600	120.29@1600	EM EGR EC
6090HRW48	6090H	374.15@2100	175.80@2100	124.45@2100	1182.16@1600	222.9@1600	120.29@1600	EM EGR EC
6090HF485Z	6090H	350 442.54@1800	237.70@1800	144.34@1800				EM EGR EC
6090HDW03	6090H	230.86@2200	111.10@2200	82.48@2200	884.96@1600	169.7@1600	91.61@1600	EM EGR EC
6090HDW08	6090H	295.03@2000	148.80@2000	100.36@2000	1132.01@1500	215.5@1500	109.07@1500	EM EGR EC
6090HRW43	6090H	299.05@2100	141.10@2100	98.94@2100	976.41@1600	191.7@1600	103.40@1600	EM EGR EC
6090HZ003D	6090H	406.33@2200	186.50@2200	138.30@2200	1181.51@1600	217.6@1600	117.38@1600	EM EGR EC
6090HRW40	6090H	299.05@2100	141.10@2100	98.94@2100	976.41@1600	191.7@1600	103.40@1600	EM EGR EC
6090HRW38	6090H	299.05@2100	141.10@2100	98.94@2100	976.41@1600	191.7@1600	103.40@1600	EM EGR EC
6090HRW41	6090H	299.05@2100	141.10@2100	98.94@2100	976.41@1600	191.7@1600	103.40@1600	EM EGR EC
6090HD008B	6090H	352.89@2200	182.30@2200	120.38@2200	994.11@1600	198.6@1600	107.10@1600	EM EGR EC

SP DOIT, CA

SPL DDI FC
CAL

6090HF008A	6090H	406.33@2200	188.50@2200	138.30@2200	1181.51@1800	217.6@1800	117.96@1800	EM EGR EC
6090HF485L	6090H	399.63@2200	182.40@2200	135.38@2200	1143.07@1800	167.8@1800	118.65@1800	EM EGR EC
6090HW02	6090H	286.98@2400	128.80@2400	102.58@2400	814.90@1800	148.5@1800	80.82@1800	EM EGR EC
6090HTJ01	6090H	214.57@2000	110.20@2000	74.39@2000	629.85@1400	181.1@1400	76.20@1400	EM EGR EC
6090HRW32	6090H	289.05@2100	141.10@2100	98.94@2100	978.41@1800	181.7@1800	103.40@1800	EM EGR EC
6090HRW35	6090H	299.05@2100	141.10@2100	98.94@2100	978.41@1800	181.7@1800	103.40@1800	EM EGR EC
IRW24	6090H	331.24@2100	159.40@2100	112.86@2100	1143.07@1575	217.1@1575	115.30@1575	EM EGR EC
HF485E	6090H	350.01@2000	175.70@2000	118.50@2000	1148.78@1500	211.9@1500	107.21@1500	EM EGR EC
6090HF485R	6090H	250.78@2000	123.00@2000	83.01@2000	885.70@1500	178.1@1500	80.59@1500	EM EGR EC

U-R-004-0317

Attachment p 2 of 7

U-R-004-0317

Attachment p. 3 of 7

[illegible]

Manufacturer: John Deere Power Systems

A Engine Family: BJDXL09.0102

Family Name: 450HAA

Process Code: **Running Change**

Attachment p. 4 of 7

PL, DDI,
TC, CAC

Manufacturer:	John Deere Power Systems
Engine category:	Nonroad C1
Engine Family:	BJDXL09.D102
Family Name:	450HAA
Test Code:	Running Change

Attachment p. 5 of 7

6PL, TC, CAL, DDD

U-R-004-0317

Manufacturer: John Deere Power Systems

Engine category: Nonroad CI

Engine Family: BJDXL09.0102

* Family Name: 450HAA

Process Code: Running Change

Attachment

p. 6 of 7

1.Engine Code	2.Engine Model	3.BHP @ RPM (SAE Gross)	4.Fuel Rate: min/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: min/stroke @ peak torque	8.Fuel Rate: (lbs/hr) @ peak torque	9.Emission Control Device Per SAE J1930
6090HTD03	6090H	282.96 @ 1800	158.10 @ 1800	101.37 @ 1800	1065.84 @ 1400	203.9 @ 1400	96.30 @ 1400	EM EGR EC
6090HRW48	6090H	374.15 @ 2100	175.80 @ 2100	124.45 @ 2100	1182.16 @ 1600	222.9 @ 1600	120.29 @ 1600	EM EGR EC
6090HRW50	6090H	374.15 @ 2100	175.80 @ 2100	124.45 @ 2100	1182.16 @ 1600	222.9 @ 1600	120.29 @ 1600	EM EGR EC
6090HRW52	6090H	374.15 @ 2100	175.80 @ 2100	124.45 @ 2100	1182.16 @ 1600	222.9 @ 1600	120.29 @ 1600	EM EGR EC
6090HRW54	6090H	374.15 @ 2100	175.80 @ 2100	124.45 @ 2100	1182.16 @ 1600	222.9 @ 1600	120.29 @ 1600	EM EGR EC
6090HRW56	6090H	374.15 @ 2100	175.80 @ 2100	124.45 @ 2100	1182.16 @ 1600	222.9 @ 1600	120.29 @ 1600	EM EGR EC

21-R-004-0317

Engine Model Summary Form

Manufacturer: John Deere Power Systems

Engine category: Nonroad C1

A Engine Family: BJDXL09.0102

Alt Family Name: 450HAA

Process Code: Running Change

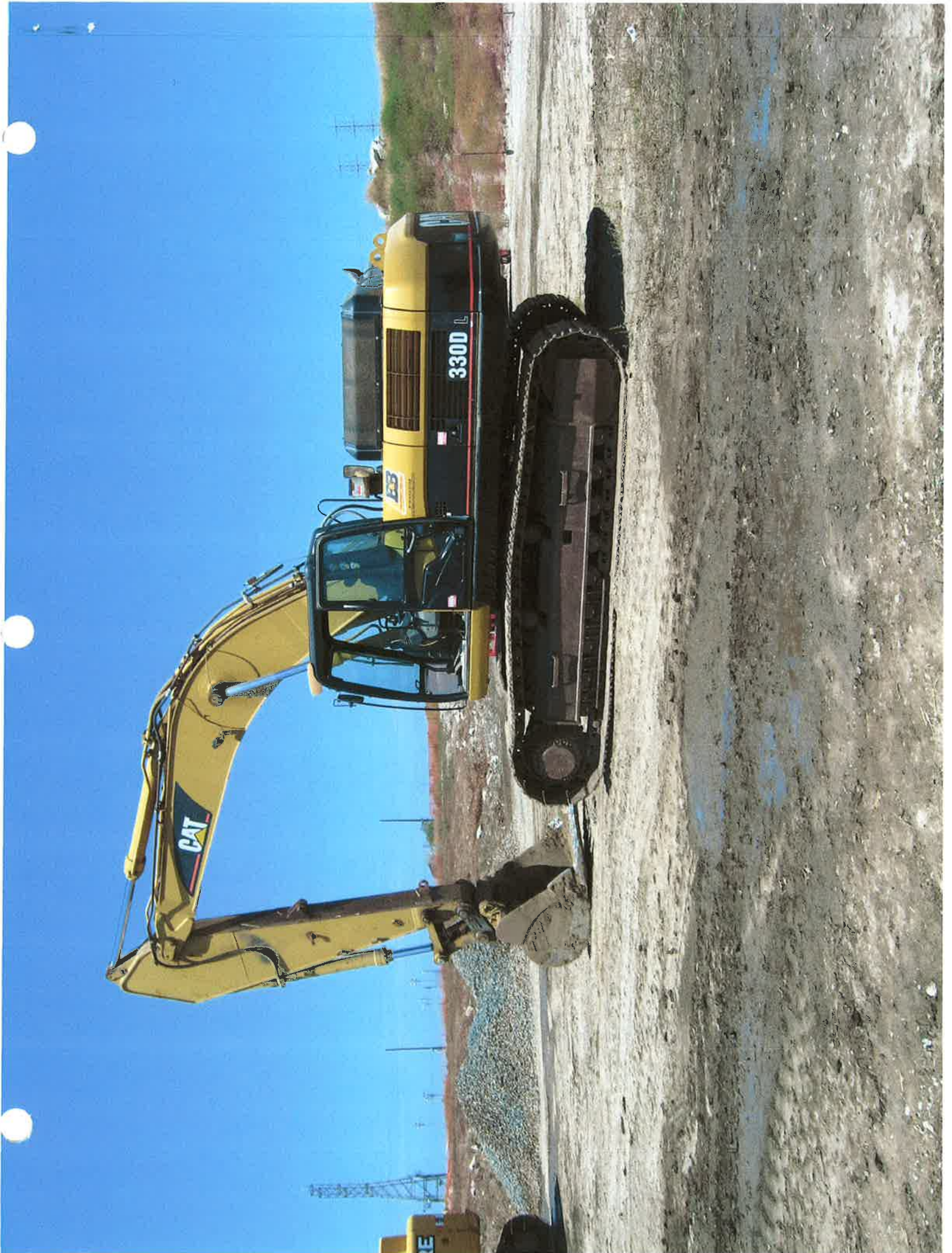
Attachment

P. 7 of 7

1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: lb/hr @ peak HP (for diesel only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke @ peak torque	8.Fuel Rate: lb/hr @ peak torque	9.Emission Control Device Per SAE J1930
6090HFC48	6090H	399.63@2200	182.40@2200	135.39@2200	1143.07@1800	167.8@1800	116.85@1800	EM EGR EC
6090HRW47	6090H	299.05@2100	141.10@2100	99.94@2100	976.41@1800	191.7@1800	103.40@1800	EM EGR EC
6090HRW49	6090H	299.05@2100	141.10@2100	99.94@2100	976.41@1800	191.7@1800	103.40@1800	EM EGR EC
6090HRW51	6090H	299.05@2100	141.10@2100	99.94@2100	976.41@1800	191.7@1800	103.40@1800	EM EGR EC
6090HRW53	6090H	299.05@2100	141.10@2100	99.94@2100	976.41@1800	191.7@1800	103.40@1800	EM EGR EC
6090HRW55	6090H	299.05@2100	141.10@2100	99.94@2100	976.41@1800	191.7@1800	103.40@1800	EM EGR EC
6090HRW57	6090H	299.05@2100	141.10@2100	99.94@2100	976.41@1800	191.7@1800	103.40@1800	EM EGR EC
6090HRW58	6090H	299.05@2100	141.10@2100	99.94@2100	976.41@1800	191.7@1800	103.40@1800	EM EGR EC
6090HRW59	6090H	299.05@2100	141.10@2100	99.94@2100	976.41@1800	191.7@1800	103.40@1800	EM EGR EC
6090HRW64	6090H	299.05@2100	141.10@2100	99.94@2100	976.41@1800	191.7@1800	103.40@1800	EM EGR EC
6090HRW65	6090H	299.05@2100	141.10@2100	99.94@2100	976.41@1800	191.7@1800	103.40@1800	EM EGR EC
6090HRW66	6090H	299.05@2100	141.10@2100	99.94@2100	976.41@1800	191.7@1800	103.40@1800	EM EGR EC
6090HRW67	6090H	299.05@2100	141.10@2100	99.94@2100	976.41@1800	191.7@1800	103.40@1800	EM EGR EC
6090HRW68	6090H	299.05@2100	141.10@2100	99.94@2100	976.41@1800	191.7@1800	103.40@1800	EM EGR EC
6090HRW69	6090H	299.05@2100	141.10@2100	99.94@2100	976.41@1800	191.7@1800	103.40@1800	EM EGR EC
6090HRW70	6090H	299.05@2100	141.10@2100	99.94@2100	976.41@1800	191.7@1800	103.40@1800	EM EGR EC
6090HRW71	6090H	299.05@2100	141.10@2100	99.94@2100	976.41@1800	191.7@1800	103.40@1800	EM EGR EC
6090HRW72	6090H	299.05@2100	141.10@2100	99.94@2100	976.41@1800	191.7@1800	103.40@1800	EM EGR EC
6090HRW73	6090H	299.05@2100	141.10@2100	99.94@2100	976.41@1800	191.7@1800	103.40@1800	EM EGR EC
6090HRW74	6090H	299.05@2100	141.10@2100	99.94@2100	976.41@1800	191.7@1800	103.40@1800	EM EGR EC
6090HRW75	6090H	299.05@2100	141.10@2100	99.94@2100	976.41@1800	191.7@1800	103.40@1800	EM EGR EC
6090HT005	6090H	217.25@2100	106.70@2100	75.62@2100	733.78@1575	148@1575	78.53@1575	EM EGR EC

CAC

SPL,DDI,TC



MODEL NUMBER

330D

CAT[®] CATERPILLAR[®]

CAT[®] CATERPILLAR[®]

PRODUCT IDENTIFICATION NUMBER

CAT0330DEB6H00304



CATERPILLAR INC.
PEORIA, IL 61629
USA

MADE IN

Envi

PARTS ORDER

728-5388



CATERPILLAR INC.

EMISSION CONTROL INFORMATION

THX02360

2006

ENGINE FAMILY	ENGINE MODEL C9		DISPLACEMENT 8.8 L		VALVE LASH 0.38		mm INTAKE 0.64		mm EXHAUST	
	MAXIMUM ADVERTISED kW (HP)		MAXIMUM LOW IDLE SPEED (RPM)		MAXIMUM FUEL RATE @ MAXIMUM (mm ³ /STROKE)		MAXIMUM INITIAL TISSING DEGREES BTDC		EXHAUST EMISSION CONTROL SYSTEM	
6CPX108 BE SK	350 (480)		2200		265		ELECTRONIC		EM D1TC EUM CAC	

THIS C9 ENGINE CONFORMS TO 2006 U.S. EPA AND CALIFORNIA REGULATIONS FOR LARGE NONROAD COMPRESSION-IGNITION ENGINES

THIS ENGINE IS CERTIFIED TO OPERATE ON COMMERCIALLY AVAILABLE DIESEL FUEL



9 230 063 8-278

200-2063



Pursuant to the authority vested in the Air Resources Board by Sections 43013, 43018, 43101, 43102, 43104 and 43105 of the Health and Safety Code; and

Pursuant to the December 15, 1998 Settlement Agreement between the Air Resources Board and the manufacturer, and any modifications thereof to the Settlement Agreement;

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-02-003;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engine and emission control system produced by the manufacturer are certified as described below for use in off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)
2006	6CPXL08.8ESK	8.8	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Turbocharger, Charge Air Cooler and Engine Control Module			Loader, Dozer, Scraper and Industrial Equipment	

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for hydrocarbon (HC), oxides of nitrogen (NO_x), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NO_x), carbon monoxide (CO), and particulate matter (PM) in grams per kilowatt-hour (g/kw-hr), and the opacity-of-smoke certification standards and certification levels in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family (Title 13, California Code of Regulations, (13 CCR) Section 2423):

RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			HC	NO _x	NMHC+NO _x	CO	PM	ACCEL	LUG	PEAK
130 ≤ KW < 225	Tier 3	STD	N/A	N/A	4.0	3.5	0.20	20	15	50
225 ≤ KW < 450	Tier 3	STD	N/A	N/A	4.0	3.5	0.20	20	15	50
		CERT	—	—	3.7	3.1	0.15	16	3	24

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

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

This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.

Executed at El Monte, California on this 21st day of December 2005.


for Allen Lyons, Chief
Mobile Source Operations Division

Engine Model Summary Form

ATTACHMENT 1 OF 1

Manufacturer: CATERPILLAR INC.
 Engine category: Nonroad Over 50 Hp
 EPA Engine Family: 6CPX108.8ESK
 Mfr Family Name: NA
 Process Code: New Submission

U-R-001-0287

1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesels only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
1 Cert Engine	C9	375@1800	209	126.5	1250@1400	246	116.0	EM,DI,TC,ECM,CAC
2	C9	330@2100	168	118	1173@1400	227	107	EM, DI, TC, ECM,
3	C9	289@2000	153	103	885@1400	181	85	EM, DI, TC, ECM,
4	C9	258@2000	138	93	795@1400	162	76	EM, DI, TC, ECM,
5	C9	350@2100	178	125.4	1029@1400	208	98.1	EM, DI, TC, ECM,
6	C9	228@1850	136	84.5	852@1300	185	80.7	EM, DI, TC, ECM,
7	C9	325@2200	162	119.6	1095@1400	222	104.6	EM, DI, TC, ECM,
8	C9	330@2100	176	124.6	1173@1400	235	110.8	EM, DI, TC, ECM,
9	C9	311@2100	166	117.0	1106@1400	231	109.0	EM, DI, TC, ECM,
10	C9	278@2100	147	104.0	988@1400	204	96.0	EM, DI, TC, ECM,
11	C9	311@2100	163	115.0	1098@1400	226	106.0	EM, DI, TC, ECM,
12	C9	275@2200	139	103.0	927@1400	186	103.0	EM, DI, TC, ECM,
13	C9	300@2200	149	110.0	1011@1400	200	110.0	EM, DI, TC, ECM,
14	C9	350@2200	173	128.0	1148@1400	234	110.0	EM, DI, TC, ECM,
15	C9	261@1800	153	93.0	915@1400	187	88.0	EM, DI, TC, ECM,
16	C9	286@1800	167	101.0	1000@1400	203	96.0	EM, DI, TC, ECM,
17 Cert Engine	C9	480@1800	265	160.0	NA	NA	NA	EM, DI, TC, ECM,
18	C9	480@1800	265	160.0	NA	NA	NA	EM, DI, TC, ECM,
19	C9	398@1800	226	137.0	NA	NA	NA	EM, DI, TC, ECM,
20	C9	374@1800	209	127.0	NA	NA	NA	EM, DI, TC, ECM,
21	C9	386@1500	253	127.0	NA	NA	NA	EM, DI, TC, ECM,
22	C9	373@1500	245	124.0	NA	NA	NA	EM, DI, TC, ECM,
23	C9	480@1800	265	160.0	NA	NA	NA	EM, DI, TC, ECM,
24	C9	398@1800	226	137.0	NA	NA	NA	EM, DI, TC, ECM,
25	C9	480@1800	265	160.0	NA	NA	NA	EM, DI, TC, ECM,
26	C9	374@1800	209	127.0	NA	NA	NA	EM, DI, TC, ECM,
27	C9	286@2000	155	104.0	885@1400	184	87.0	EM, DI, TC, ECM,
28	C9	303@2000	168	112.0	999@1200	228	92.0	EM, DI, TC, ECM,
29	C9	264@1800	163	99.0	991@1300	204	89.0	EM, DI, TC, ECM,✓

Engine Model Summary Form

Manufacturer: CATERPILLAR INC.
Engine category: Nonroad Over 50 Hp
EPA Engine Family: 6CPXL08.8ESK
Mfr Family Name:
Process Code: Running Change -1

1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
32	C9	213@1850	130	81	909@1300	181	79	EM,DI,TC,ECM,CA
33	C9	213@1850	129	80	909@1300	186	82	EM,DI,TC,ECM,CA

Manufacturer: CATERPILLAR INC.

Engine category: Nonroad Over 50 Hp

EPA Engine Family: 6CPXL08.8ESK

Mfr Family Name:

Process Code: Running Change - 3

1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
35	C9	259@1600	171	92	926@1400	186	88	EM,DI,TC,ECM,CA
36	C9	375@2200	188	139	1230@1400	247	117	EM,DI,TC,ECM,CA



CATERPILLAR INC.

EMISSION CONTROL INFORMATION

2006

THX02360

ENGINE FAMILY	ENGINE MODEL C9		DISPLACEMENT 8.8 L		VALVE LASH 0.38		mm INTAKE 0.64		mm EXHAUST	
	MAXIMUM ADVERTISED kW (HP)		MAXIMUM LOW IDLE SPEED (RPM)		MAXIMUM FUEL RATE @ MAXIMUM (mm ³ /STROKE)		MAXIMUM INITIAL TISSING DEGREES BTDC		EXHAUST EMISSION CONTROL SYSTEM	
6CPX108 BE SK	350 (480)		2200		265		ELECTRONIC		EM D1TC EUM CAC	

THIS C9 ENGINE CONFORMS TO 2006 U.S. EPA AND CALIFORNIA REGULATIONS FOR LARGE NONROAD COMPRESSION-IGNITION ENGINES

THIS ENGINE IS CERTIFIED TO OPERATE ON COMMERCIALLY AVAILABLE DIESEL FUEL



9 230 063 8-278

200-2063

Engine Model Summary Form

Manufacturer: CATERPILLAR INC.
Engine category: Nonroad Over 50 Hp
EPA Engine Family: 6CPXL08.8ESK
Mfr Family Name:
Process Code: Running Change - 4

1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
37	C9	300@2100	152	108	988@1400	198	93	EM,DI,TC,ECM,CA

Engine Model Summary Form

Manufacturer: CATERPILLAR INC.
Engine category: Nonroad Over 50 Hp
EPA Engine Family: 6CPXL08.8ESK
Mfr Family Name:
Process Code: Running Change - 5

1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
34	C9	350@1800	206	125	1148@1400	232	109	EM,DI,TC,ECM,CA

Engine Model

Manufacturer: CATERPILLAR INC.
Engine category: Nonroad Over 50 Hp
EPA Engine Family: 6CPXL08.8ESK
Mfr Family Name:
Process Code: Running Change - 6

1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
38	C9	350@1800	199	121	1151@1400	228	107	EM, DI, TC, ECM,

Engine Model Summary Form

Manufacturer: **CATERPILLAR INC.**
 Engine category: **Nonroad Over 50 Hp**
 EPA Engine Family: **6CPXL08.8ESK**
 Mfr Family Name:
 Process Code: **Running Change - 7**

1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke @ peak torque	8.Fuel Rate: (lbs/hr) @ peak torque	9.Emission Control Device Per SAE J1930
30	C9	228@1850	132	82	980@1300	195	85	EM,DI, TC, ECM,
31	C9	228@1850	137	85	980@1300	197	90	EM,DI, TC, ECM,

Manufacturer: CATERPILLAR INC.

Engine category: Nonroad Over 50 Hp

EPA Engine Family: 6CPXL08.BESK

Mfr Family Name:

Process Code: Running Change - 3

1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
35	C9	259@1600	171	92	926@1400	186	88	EM,DI,TC,ECM,CA
36	C9	375@2200	188	139	1230@1400	247	117	EM,DI,TC,ECM,CA

Engine Model Summary Form

Manufacturer: CATERPILLAR INC.
Engine category: Nonroad Over 50 Hp
EPA Engine Family: 6CPXL08.8ESK
Mfr Family Name:
Process Code: Running Change - 4

1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
37	C9	300@2100	152	108	988@1400	198	93	EM,DI,TC,ECM,CA

Engine Model Summary Form

Manufacturer: **CATERPILLAR INC.**
 Engine category: **Nonroad Over 50 Hp**
 EPA Engine Family: **6CPXL08.8ESK**
 Mfr Family Name:
 Process Code: **Running Change - 5**

1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lb/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
34	C9	350@1800	206	125	1148@1400	232	109	EM,D1,TC,ECM,CA

Engine Model

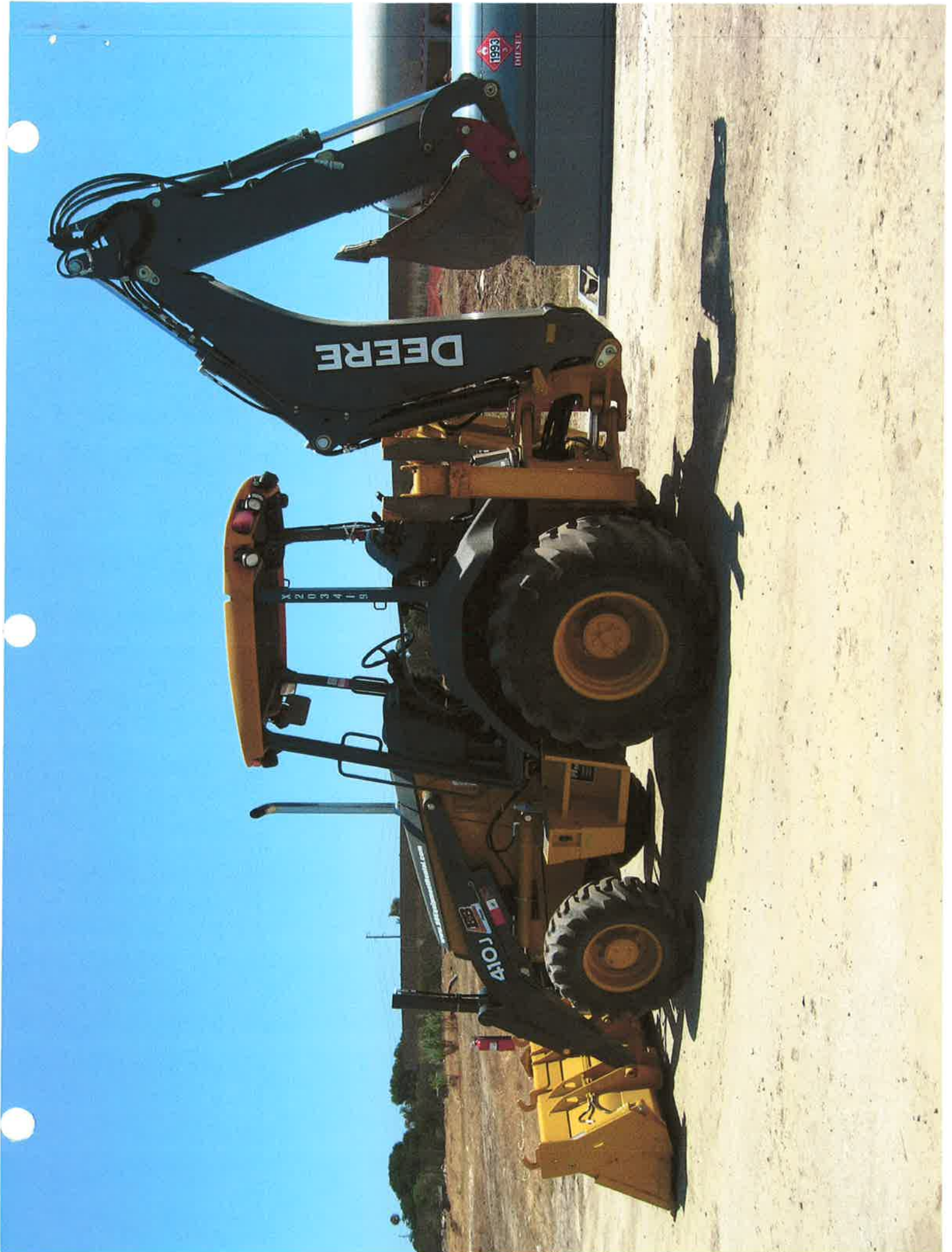
Manufacturer: **CATERPILLAR INC.**
Engine category: **Nonroad Over 50 Hp**
EPA Engine Family: **6CPXL08.8ESK**
Mfr Family Name:
Process Code: **Running Change - 6**

1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
38	C9	350@1800	199	121	1151@1400	228	107	EM, DI, TC, ECM,

Engine Model

Manufacturer: CATERPILLAR INC.
Engine category: Nonroad Over 50 Hp
EPA Engine Family: 6CPXL08.8ESK
Mfr Family Name:
Process Code: Running Change - 8

1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
39	C9	254@2100	134	95	782@1400	167	79	EM, DI, TC, ECM,



JOHN DEERE

Product Identification Number

* T0410JX178969 *



BACKHOE LOADER

DEERE & COMPANY, MOULNE, ILLINOIS MADE IN USA

4105

**JOHN DEERE**

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Information[New Search](#)[Help Information](#)**Engine Serial Number: PE4045L099784****Vehicle Serial Number: T0410JX178969**

Base Code:	N/A	Rating:	4045HT054
Model No:	4045HT054	EPA Family:	9JDXL06.8106
Manufactured Date:	Oct 30, 2009	EUR Family:	9JDXL06.8106
Emission Label Part No:	R528818	EPA Certificate:	JDX-NRCI-09-18
Parts Catalog No:	PC8492	CARB Certificate:	U-R-004-0364

[Click here to view additional emission information](#)

Option Name	Ordered	Production	Distributor
Rocker Arm Cover	*	1160	*
Oil Filler Cover	*	1229	*
Crankshaft Pulley & Dampener	*	1327	*
Flywheel Housing	*	1428	*
Flywheel	*	1502	*
Fuel Injection Pump/System	*	16E3	*
Air Inlet/Intake	*	17DC	*
Oil Pan	*	1903	*
Water Pump	*	2001	*
Thermostat Cover	*	2158	*
Thermostat	*	2217	*
Fan Drive	*	2301	*
Fan Belt	*	2499	*
Fan	*	2599	*
Coolant Heater/Block Heater	*	2699	*
Exhaust Manifold	*	2893	*
Ventilating System	*	2957	*
Starting Motor	*	3056	*
Alternator	*	3199	*
Fuel Filter and Lines	*	35A9	*
Front Plate and Idler Shafts	*	3612	*
Fuel Transfer Pump	*	3799	*
Thermostat Housing/Expansion Tank (Marine)	*	3924	*
Oil Dipstick	*	4002	*
Belt-Driven Front Auxiliary Drive	*	4199	*
Starting Aid/Heater - Air Intake	*	4399	*
Speed Sensor/Tachometer Drive	*	4446	*
Balancer Shaft	*	4501	*
Cylinder Block	*	4643	*

 AIR RESOURCES BOARD	John Deere Power Systems	EXECUTIVE ORDER U-R-004-0364 New Off-Road Compression-Ignition Engines
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Pursuant to the authority vested in the Air Resources Board by Sections 43013, 43018, 43101, 43102, 43104 and 43105 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-02-003;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engines and emission control systems produced by the manufacturer are certified as described below for use in off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)
2009	9JDXL06.8106	4.5, 6.8	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Turbocharger, Charge Air Cooler, Electronic Control Module, Smoke Puff Limiter			Tractor, Pump, Compressor, Generator Set, Other Industrial Equipment	

The engine models and codes are attached.

The following are the exhaust certification standards (STD), or family emission limit(s) (FEL) as applicable, and certification levels (CERT) for hydrocarbon (HC), oxides of nitrogen (NOx), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NOx), carbon monoxide (CO), and particulate matter (PM) in grams per kilowatt-hour (g/kw-hr), and the opacity-of-smoke certification standards and certification levels in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family (Title 13, California Code of Regulations, (13 CCR) Section 2423):

RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			HC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
56 ≤ kW < 75	Tier 3	STD	N/A	N/A	4.7	5.0	0.40	20	15	50
		FEL	N/A	N/A	—	—	0.30	—	—	—
		CERT	—	—	4.1	1.4	0.20	1	2	2

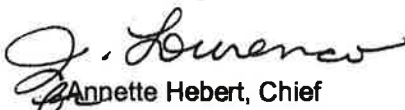
BE IT FURTHER RESOLVED: That the family emission limit(s) (FEL) is an emission level declared by the manufacturer for use in any averaging, banking and trading program and in lieu of an emission standard for certification. It serves as the applicable emission standard for determining compliance of any engine within this engine family under 13 CCR Sections 2423 and 2427.

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

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

This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.

Executed at El Monte, California on this 12th day of December 2008.


Annette Hebert, Chief
Mobile Source Operations Division

Engine Model Summary Form

U-R-004-0364

Manufacturer: John Deere Power Systems
 Engine category: Nonroad CI
 EPA Engine Family: 8JDXL06.8106
 Family Name: 350HAD
 Test Code: New Submission

Attachment p. 1 of 3

1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
4045HF285B	4045H 74 kW	99.24@2400	77.90@2400	42.07@2400	339.24@1600	113.9@1600	40.99@1600	EM EC SPL
4045HL280	4045H	95.22@2300	74.30@2300	38.43@2300	288.35@1600	93.6@1600	33.67@1600	EM EC SPL
4045HL282A	4045H	99.24@2300	80.80@2300	40.13@2300	303.84@1800	105.8@1800	36.38@1800	EM EC SPL
4045HL282B	4045H	95.22@2300	79.20@2300	39.25@2300	289.83@1800	102.9@1800	35.50@1800	EM EC SPL
4045HT054	4045H	99.24@2250	67.80@2250	34.33@2250	258.85@1600	85.7@1600	30.83@1600	EM EC SPL
4045HT059A	4045H 56 kW	75.10@2200	63.10@2200	31.22@2200	233.34@1500	78.3@1500	26.42@1500	EM EC SPL
4045HT059B	4045H	80.47@2200	66.90@2200	33.10@2200	252.22@1500	84.3@1500	28.42@1500	EM EC SPL
4045HT059C	4045H	84.49@2200	66.90@2200	34.57@2200	260.33@1500	87.4@1500	29.50@1500	EM EC SPL
4045HT059D	4045H	88.51@2200	72.40@2200	35.81@2200	274.34@1500	91.4@1500	30.85@1500	EM EC SPL
4045HT059E	4045H	99.24@2200	79.80@2200	39.49@2200	308.26@1500	99.2@1500	33.45@1500	EM EC SPL
4045HT061	4045H	99.24@2000	84.80@2000	38.14@2000	309.44@1500	101.6@1500	34.26@1500	EM EC SPL
4045HT281	4045H	99.24@2400	80.30@2400	41.72@2400	290.57@1600	102.8@1600	35.50@1600	EM EC SPL
4045HLV50	4045H	99.24@2200	78.70@2200	38.94@2200	309.00@1500	100.5@1500	33.89@1500	EM EC SPL
4045HL284	4045H	99.24@2300	79.80@2300	39.47@2300	314.16@1600	105.5@1600	36.38@1600	EM EC SPL
4045HL282C	4045H	99.24@2300	80.80@2300	40.13@2300	303.84@1600	105.8@1600	36.38@1600	EM EC SPL

DI.TC.CAL



U-R-004-0364

Attachment P. 2 of 3

[illegible]

V-R-004-0364

Process Code: **Running Change**

Attachment

p. 3 of 3

[illegible]

DEI, TC
C A I





California Environmental Protection Agency

AIR RESOURCES BOARD

Statewide Portable Equipment Registration Program

Registration Number:

143999

Expiration Date:

6/30/11



PORTABLE EQUIPMENT REGISTRATION PROGRAM

01850

MODEL 10185010JD/PT1
SERIAL NO. 26458
MAX. PRESS. 100 PSIG
MAX. SPEED 2200 RPM
ALWAYS GIVE SERIAL NO. WHEN
ORDERING PARTS
SULLIVAN-PALATEK, INC.
CLAREMONT, NEW HAMPSHIRE, U.S.A.





Air Resources Board



Linda S. Adams
Secretary for
Environmental Protection

Mary D. Nichols, Chairman
1001 I Street • P.O. Box 2815
Sacramento, California 95812 • www.arb.ca.gov

Arnold Schwarzenegger
Governor

June 23, 2008

Andrew Peppel
Rusmar Inc.
216 Garfield Avenue
West Chester, PA 19380

Dear Andrew Peppel:

RE: Application # 17990

We have completed the evaluation of your June 4, 2008 application for registration in the Statewide Portable Equipment Registration Program. Based on our evaluation, registration will be issued for the following engine(s)/equipment unit(s):

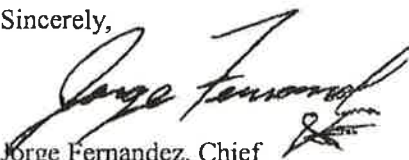
Description	Serial Number	Registration Number	ARB Tracking #
Engine	PE4045D572316	143999	20082680

Enclosed with this letter is a registration certificate, operating conditions, and a sticker for each engine/equipment unit listed. A copy of the registration certificate and operating conditions must be kept with the engine/equipment unit or on the immediate premises at all times. In addition, for each engine/equipment unit listed, a green metallic placard and a second sticker with placement instructions will be mailed separately **only if inspection fees were paid** with the registration application. Please place the sticker(s) included with this letter on the engine(s) or equipment unit(s) for which it was issued.

As a requirement of registration, the owner or operator of the registered portable engine/equipment unit may be subject to district inspection requirements if listed in the attached operating conditions. Please review the operating conditions immediately and carefully. If it is specified in the attached operating conditions, please contact the home district to arrange an inspection as required. Any violation of the operating conditions may result in enforcement action by either the districts or the Air Resources Board.

Please indicate your application number, listed above, on any future correspondence with us regarding the Statewide Registration Program. If you have any questions regarding your registration, please call Mike Donnelly at (916) 445-7599.

Sincerely,


Jorge Fernandez, Chief
Program Evaluation Branch
Stationary Source Division

Enclosures

The energy challenge facing California is real. Every Californian needs to take immediate action to reduce energy consumption. For a list of simple ways you can reduce demand and cut your energy costs, see our website: <http://www.arb.ca.gov>.

California Environmental Protection Agency

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Portable Equipment Registration Program

Inspection Requirements and Local Air District Contact Information

The back side of this sheet lists all California Air Districts with corresponding contact phone numbers. The provided table is intended to help all registrants and applicants with scheduling an inspection with their home district.

Once you have received your initial registration or renewal registration package, please note the home district you have selected for each registered engine or equipment unit (located on the certificate page). Contact the corresponding air district to schedule your inspection date. This sheet may be used to assist you with scheduling your inspection.

Note: Section 2460 of the PERP regulation requires you to contact the home district within 45 days of initial registration or renewal date to arrange an inspection to be completed within one year of initial registration or renewal date.

California Air District	Counties	District Phone for Inspection
Amador County APCD	Amador County	(209) 257-0112
Antelope Valley AQMD	Northeast portion of LA County	(661) 723-8070
Bay Area AQMD	Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, western portion of Solano, southern portion of Sonoma counties	(415) 749-5000
Butte County AQMD	Butte County	(530) 891-2882
Calaveras County APCD	Calaveras County	(209) 754-6504
Colusa County APCD	Colusa County	(530) 458-0590
El Dorado County AQMD	El Dorado County	(530) 621-6662
Feather River AQMD	Sutter and Yuba counties	(530) 634-7659
Glenn County APCD	Glenn County	(530) 934-6500
Great Basin Unified APCD	Alpine, Inyo, and Mono counties	(760) 872-8211
Imperial County APCD	Imperial County	(760) 482-4606
Kern County APCD	Eastern portion of Kern County	(661) 862-5250
Lake County AQMD	Lake County	(707) 263-7000
Lassen County APCD	Lassen County	(530) 251-8110
Mariposa County APCD	Mariposa County	(209) 966-2220
Mendocino County AQMD	Mendocino County	(707) 463-4354
Modoc County APCD	Modoc County	(530) 233-6419
Mojave Desert AQMD	Northern portion of San Bernardino County, eastern portion of Riverside County	(760) 245-1661
Monterey Bay Unified APCD	Monterey, San Benito, Santa Cruz counties	(831) 647-9411
North Coast Unified AQMD	Del Norte, Humboldt, Trinity counties	(707) 443-3093
Northern Sierra AQMD	Nevada, Plumas, Sierra counties	(530) 274-9360
Northern Sonoma County APCD	Northern portion of Sonoma County	(707) 433-5911
Placer County APCD	Placer County	(530) 745-2330
Sacramento Metro AQMD	Sacramento County	(916) 874-4800
San Diego County APCD	San Diego County	(858) 586-2600
San Joaquin Valley APCD	Fresno, Kings, Madera, Merced, San Joaquin, Stanislaus, Tulare, and western portion of Kern counties	(559) 230-6000
San Luis Obispo County APCD	San Luis Obispo County	(805) 781-4AIR
Santa Barbara County APCD	Santa Barbara County	(805) 961-8800
Shasta County AQMD	Shasta County	(530) 225-5674
Siskiyou County APCD	Siskiyou County	(530) 841-4029
South Coast AQMD	Los Angeles County except for Antelope Valley AQMD, Orange County, western portion of San Bernardino and western portion of Riverside counties	(909) 396-2325
Tehama County APCD	Tehama County	(530) 527-3717
Tuolumne County APCD	Tuolumne County	(209) 533-5693
Ventura County APCD	Ventura County	(805) 645-1400
Yolo-Solano AQMD	Yolo and eastern portion of Solano counties	(530) 757-3650



Linda S. Adams
Secretary for
Environmental Protection

Air Resources Board

Mary D. Nichols, Chairman
1001 I Street • P.O. Box 2815
Sacramento, California 95812 • www.arb.ca.gov



Arnold Schwarzenegger
Governor

Statewide Portable Equipment Registration

Registration No: 143999

Legal Owner or Operator:

Rusmar Inc.

Mailing Address:

216 Garfield Avenue
West Chester, PA 19380

Engine Description:

Certified non-road portable internal combustion engine, compression ignition, John Deere, model 4045DF270, Serial No: PE4045D572316, (Unit Number: 34), rated at 80 bhp and diesel fueled.

U.S. EPA Engine Family Name:

6JDXL04.5076

Conditions:

see attached

Home District:

South Coast Air Quality Management
District

Engine Inspection Discount:

No inspection discount claimed

Expiration Date: June 30, 2011

Jorge Fernandez
Chief, Program Evaluation Branch
Stationary Source Division

The energy challenge facing California is real. Every Californian needs to take immediate action to reduce energy consumption. For a list of simple ways you can reduce demand and cut your energy costs, see our website: <http://www.arb.ca.gov>.

California Environmental Protection Agency

Statewide Portable Equipment Registration

The following operating conditions apply for registration 143999

Engine Serial No.: PE4045D572316

General Requirements

1. The engine shall be properly maintained and kept in good operating condition at all times.
2. The registration identification sticker shall be affixed in a visible location on the registered portable engine at all times. The metal placard shall be securely affixed on a vertical surface of the portable engine in a location that is readily visible from a distance. A legible copy of the registration certificate and operating conditions shall be kept on site with the portable engine and shall be made accessible to the Air Resources Board or district representative upon request.
3. Engine fuel shall meet standards for California motor vehicle fuels as set forth in Chapter 5, Division 3, Title 13, of the California Code of Regulations, or shall have been verified through the In-Use Strategies to Control Emissions From Diesel Engines verification procedure per Title 13 of the California Code of Regulations commencing with section 2700.
4. The engine and any replacement engine shall not reside at the same location for more than 12 consecutive months.
5. The operation of this engine shall not cause a public nuisance.
6. The engine shall be equipped with operational and properly maintained non-resettable hour time meter.
7. For each rental engine or an engine used in a third party rental transaction, the owner shall provide each person who rents the portable engine with a copy of the registration certificate, including operating conditions, as part of the rental agreement.
8. The operator of a portable engine or equipment unit shall obtain district authorization prior to operation at any specific location where the Statewide registration is not valid.
9. This registration is not valid for operation within the boundaries of the California Outer Continental Shelf and State Territorial Waters.
10. The portable engine shall not be operated under both statewide registration and a district permit at any specific location.
11. This registration is not valid for operation of an engine that powers an equipment unit that has been determined by the Air Resources Board to qualify as part of a stationary source permitted by a district.
12. Except for engines owned by a rental business, the owner/operator of this engine shall contact the local air district prior to operation at an agricultural source.
13. For each rental engine or an engine used in a third party rental transaction, a written copy of the rental or lease agreement must be kept onsite at all times.

The following operating conditions apply for registration 143999
Engine Serial No.: PE4045D572316

Emission Limitations

14. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than 3 minutes in any one hour which is as dark or darker than Ringelmann 1 or equivalent to 20% opacity.

Recordkeeping

15. Recordkeeping requirements applicable to a rental engine or an engine that is part of a third party rental transaction shall include the registration number of the engine; date of the start and end of the rental transaction; hours of operation for each rental period; location of use (by district, county or specific location); and written (signed) acknowledgment by each renter of having received the registration certificate and operating conditions. These records shall be maintained at a central location for a minimum of five years, and made accessible to the Air Resources Board or districts upon request.
16. For non-rental engines operating together as a project, records for each project shall be maintained separately for each project and shall consist of the following: the registration number; recordings from an hour meter, fuel meter, or other approved device; the location of the project identified by district, county or specific location; and the dates of the recordings. Readings from the meters shall be recorded prior to the commencement of the operation and at the completion of the project, or if operating at multiple locations within a stationary source, readings shall be recorded at the beginning and end of each calendar week.
17. All records shall be maintained at a central place of business for a minimum of five years, and made accessible to the Air Resources Board or district representative upon request.
18. Records shall be kept when the engine is undergoing service, repair, or maintenance that include recordings from an hour meter, fuel meter, or other approved device and the dates of such recordings.

Reporting & Notification

19. When this engine is sold, the new owner shall submit a change of ownership application within 30 days of the change in ownership. If an application is not received within 30 days of the ownership change, the existing registration is not valid for the new owner until the application has been filed and all applicable fees have been paid.

The following operating conditions apply for registration 143999
Engine Serial No.: PE4045D572316

20. Starting in 2008, the owner of a registered engine shall provide the Air Resources Board with an annual report by March 1st after the end of the reporting year which is signed by the designated responsible official and consisting of: the reporting year, registration number of each engine, and quarterly summaries of either total hours of operation or fuel usage by district or county.
21. Starting in 2008, the owner of a registered rental engine or an engine used in a third party rental transaction shall provide the Air Resources Board with an annual report by March 1st after the end of the reporting year which is signed by the designated responsible official and consisting of: the reporting year, registration number of each engine, and total annual hours of operation for that reporting year, beginning and ending hour meter readings, dates hour meter readings were recorded, list of all counties of operation, and an estimate of the percentage of total hours operated in each listed county.
22. The owner of a registered portable engine shall notify the Executive Officer in writing within five days of replacing the registered portable engine with an identical replacement. The notification shall include company name, the responsible official, phone number, registration number, make, model, rated brake horsepower, and serial number of the identical replacement, description of the mechanical breakdown, and applicable fees.

Fleet Average Requirements

23. By January 1, 2020, this engine shall be equipped with a properly functioning level-3 verified technology as defined in Title 13 of the California Code of Regulations Section 93116.2, equipped with emission control strategies that have been verified together to achieve at least 85% reduction in diesel PM emissions, or shall be replaced with an engine that is certified to meet the Tier 4 emission standards.
24. Except for low-use engines and engines used exclusively in emergency applications, for engines less than 175 bhp, a weighted fleet average PM emission factor of 0.3 g/bhp-hr shall be met by **January 1, 2013**, 0.18 g/bhp-hr shall be met by **January 1, 2017**, and 0.04 g/bhp-hr shall be met by **January 1, 2020**. Changes in the fleet, including engine additions and deletions, shall not result in noncompliance with this standard.
25. The weighted fleet average PM emission factor shall be calculated by taking the summation of the emission factor for each engine in the fleet multiplied by the bhp rating for each engine and then dividing that summation by the summation of the bhp ratings for all the engines in the fleet.
26. The weighted fleet average PM emission factor calculation shall use the test results from nonroad emission standard certification, test results from a verified emission control strategy as defined in Title 13 of the California Code of Regulations Section 93116.2, or the test results from a SCR system. All test results shall be made available to the Air Resources Board upon request.

The following operating conditions apply for registration 143999
Engine Serial No.: PE4045D572316

27. Where equipment uses grid power for more than 200 hours in lieu of operating a portable diesel engine for a given project, the time period grid power is used may be used to reduce each affected engine's emission factor. The emission factor for each affected portable engine shall be reduced proportionally by the percentage of time the equipment uses grid power.
28. The weighted fleet average PM emission factor shall include all portable engines, including those permitted or registered with a local air district, that are owned and managed by an individual operational entity, such as a business, business unit within a corporation, or individual city or state department under the control of a Responsible Official. Engines that are owned by different business entities that are under the common control of only one Responsible Official shall be treated as a single fleet.

Fleet Recordkeeping

29. Starting January 1, 2012, the responsible official of a fleet shall keep records of annual operating hours for non-diesel fueled portable engines used as part of a company's fleet average, engines affected by the use of electrification, low-use engines, and engines used exclusively in emergency applications.
30. All records pertaining to the fleet average shall be maintained at a central place of business for a minimum of five years, and made accessible to the Air Resources Board or district representative upon request.

Fleet Reporting and Notification

31. The Responsible Official of a fleet shall submit to the Air Resources Board the fleet's weighted average PM emission rate for the 2010 calendar year, including an inventory of portable engines in the fleet, by March 1, 2011. The engine inventory shall include make, model, serial number, year of manufacture, primary fuel type, PM emission factor (g/bhp-hr), and district permit or State registration number for each engine to be used in the fleet average determination.
32. The Responsible Official of a fleet shall submit to the Air Resources Board by March 1, 2011 a list of all low-use engine, engines used exclusively in emergency operations, and alternative-fueled engines added to the fleet prior to January 1, 2009. The list shall include for each engine: make, model, serial number, and district permit or State registration number.

The following operating conditions apply for registration 143999
Engine Serial No.: PE4045D572316

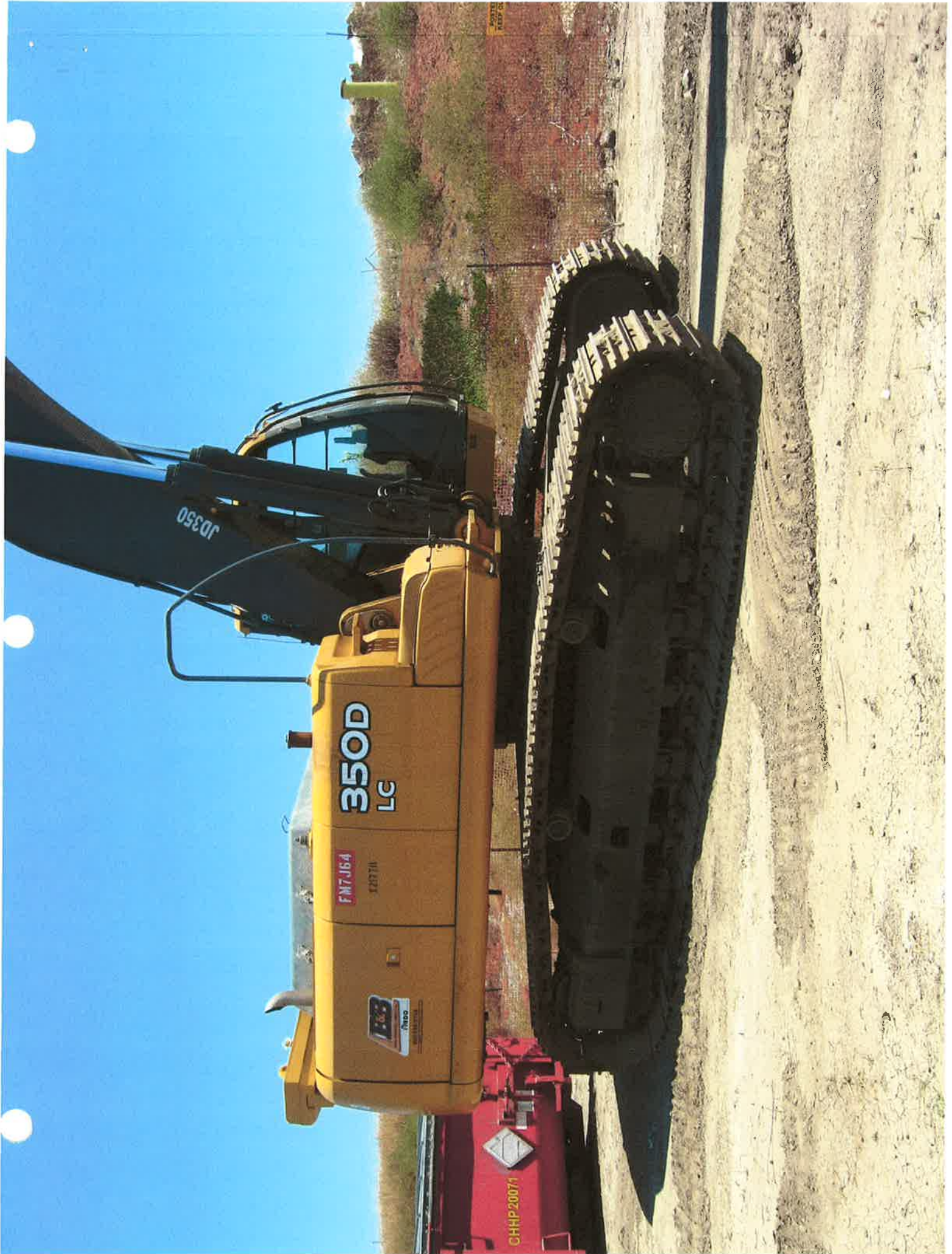
33. The Responsible Official of a fleet shall submit to the Air Resources Board by March 1, 2013, March 1, 2017, and March 1, 2020 a signed statement of compliance that the fleet standards are being achieved. The Statement of compliance shall include for each engine in the fleet: make, model, serial number, fuel type, PM emission factor (g/bhp-hr), and district permit or State registration number. If compliance with the fleet average includes the use of electrification, the Responsible Official shall provide documentation supporting the credit claimed for electrification.
34. As part of each statement of compliance, the Responsible Official shall, if applicable, certify that all alternative-fueled engines included in the fleet average operated at least 100 hours during the previous 12 months prior to the fleet emission standard becoming effective, for all engines exclusively used in emergency applications, the engines were used only for emergency applications, for all engines using the low-use designation, the engines operated no more than 80 hours for the reporting period, and for all portable diesel-fueled engines equipped with SCR, the engine complies with applicable district or Statewide Portable Equipment Registration Program requirements.
35. The Responsible Official of a fleet electing to use electrification in determining the fleet average shall notify prior to the start of the project the Executive Officer of the dates, location of the project, and make, model, serial number, district permit or State registration number of the affected engines. In addition, the notification shall clearly identify the electrification activity, including indicating the amount of electricity used and the time period for the project.

Inspection Requirements

36. Within 45 days after initial issuance or renewal of a registration, the owner or operator shall contact the home district to arrange for inspection to be completed within one year of the initial registration or renewal date. If the engine is operating in a district other than the home district, the owner or operator may request the home district to arrange an inspection by that other district.
37. For the purposes of scheduling inspections of multiple engines in order to qualify for an inspection fee discount, the owner or operator shall submit, within 45 days of initial registration issuance date or by January 30 of each year for renewals, a letter of intent to the home district that shall include an engine list with registration numbers of those to be inspected.
38. The time for the arranged inspection shall be agreed upon in advance between the district and the company. To the extent that an arranged inspection does not fall within the district's normal workday, the district may charge for the off-hour time.
39. If an arranged inspection does not occur due to unforeseen circumstances, the inspection shall be rescheduled for no later than 90 days from the initially scheduled inspection.

The following operating conditions apply for registration 143999
Engine Serial No.: PE4045D572316

40. If the engine is out of California for one year or more following initial registration or renewal, the engine shall be excused from having the arranged inspection provided that within 45 days after the date of initial registration or renewal, the owner sends a letter to the district containing the registration number and a statement that the registered engine or equipment unit is out of California for the one-year period. Upon the return of the engine to California, the owner shall arrange an inspection within 30 days.



JOHN DEERE

Product Identification Number

F350DX805958



EXCAVATOR

DEERE & COMPANY MOLINE, ILLINOIS

5120

350DLC

**JOHN DEERE**

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New Search**Help Information****Engine Serial Number: RG6090L018855****Vehicle Serial Number: FF350DX805958**

Base Code:	N/A	Rating:	6090HT002
Model No:	6090HT002	EPA Family:	7JDXL09.0102
Manufactured Date:	Mar 26, 2007	EUR Family:	7JDXL09.0102
Emission Label Part No:	R525360	EPA Certificate:	JDX-NRC1-07-02
Parts Catalog No:	PC8478	CARB Certificate:	U-R-004-0304

[Click here to view additional emission information](#)

Option Name	Ordered	Production	Distributor
Rocker Arm Cover	*	1106	*
Crankshaft Pulley & Dampener	*	1312	*
Flywheel Housing	*	1405	*
Flywheel	*	1543	*
Fuel Injection Pump/System	*	1603	*
Air Inlet/Intake	*	1701	*
Oil Pan	*	1903	*
Water Pump	*	2001	*
Thermostat Cover	*	2107	*
Thermostat	*	2201	*
Fan Belt	*	2430	*
Coolant Heater/Block Heater	*	2699	*
Exhaust Manifold	*	2802	*
Ventilating System	*	2907	*
Starting Motor	*	3003	*
Alternator	*	3102	*
Fuel Filter and Lines	*	3509	*
Thermostat Housing/Expansion Tank (Marine)	*	3902	*
Oil Dipstick	*	4013	*
Starting Aid/Heater - Air Intake	*	4397	*
Cylinder Block	*	4601	*
Crankshaft and Bearings	*	4701	*
Connecting Rods and Pistons	*	4801	*
Valve Actuating Mechanism	*	4901	*
Oil Pump	*	5001	*
Cylinder Head With Valves	*	5101	*
Gear-Driven Auxiliary Drive	*	5212	*
Shipping Stand	*	5513	*
Paint	*	5604	*

 CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY AIR RESOURCES BOARD	JOHN DEERE POWER SYSTEMS OF DEERE	EXECUTIVE ORDER U-R-004-0304 New Off-Road Compression-Ignition Engines
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Pursuant to the authority vested in the Air Resources Board by Sections 43013, 43018, 43101, 43102, 43104 and 43105 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-02-003;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engines and emission control systems produced by the manufacturer are certified as described below for use in off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)
2007	7JDXL09.0102	9.0	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Engine Control Module, Turbocharger, Charge Air Cooler, Exhaust-Gas Recirculation			Loader, Tractor, Pump, Compressor, Generator Set, Other Industrial Equipment	

The engine models and codes are attached.

The following are the exhaust certification standards (STD), or family emission limit(s) (FEL) as applicable, and certification levels (CERT) for hydrocarbon (HC), oxides of nitrogen (NOx), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NOx), carbon monoxide (CO), and particulate matter (PM) in grams per kilowatt-hour (g/kW-hr), and the opacity-of-smoke certification standards and certification levels in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family (Title 13, California Code of Regulations, (13 CCR) Section 2423):

RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kW-hr)					OPACITY (%)		
			HC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
130 ≤ kW < 225	Tier 3	STD	N/A	N/A	4.0	3.5	0.20	20	15	50
225 ≤ kW < 450	Tier 3	STD	N/A	N/A	4.0	3.5	0.20	20	15	50
		FEL	-	-	3.9	-	-	-	-	-
		CERT	-	-	3.6	0.5	0.12	8	4	32

BE IT FURTHER RESOLVED: That the family emission limit(s) (FEL) is an emission level declared by the manufacturer for use in any averaging, banking and trading program and in lieu of an emission standard for certification. It serves as the applicable emission standard for determining compliance of any engine within this engine family under 13 CCR Sections 2423 and 2427.

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

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

This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.

Executed at El Monte, California on this 20 day of December 2006.



Annette Hebert, Chief
Mobile Source Operations Division





and upon the fact that the
Vice President of the
United States is a member of the
Board of Directors of the
American Telephone and Telegraph
Company.

50 Cal Pipe
RANCHO Cucamonga

THIS VALIDATED REGISTRATION CARD OR A FACSIMILE COPY IS TO BE KEPT WITH THE VEHICLE FOR WHICH IT IS ISSUED. THIS REQUIREMENT DOES NOT APPLY WHEN THE VEHICLE IS LEFT UNATTENDED. IT NEED NOT BE DISPLAYED. PRESENT IT TO ANY PEACE OFFICER UPON DEMAND. IF YOU DO NOT RECEIVE A RENEWAL NOTICE, USE THIS FORM TO PAY YOUR RENEWAL FEES OR NOTIFY THE DEPARTMENT OF MOTOR VEHICLES OF THE PLANNED NON-OPERATIONAL STATUS (PNO) OF A STORED VEHICLE. RENEWAL FEES MUST BE PAID ON OR BEFORE THE REGISTRATION EXPIRATION DATE OR PENALTIES WILL BE DUE PURSUANT TO CALIFORNIA VEHICLE CODE SECTIONS 9552 - 9554.

EVIDENCE OF LIABILITY INSURANCE FROM YOUR INSURANCE COMPANY MUST BE PROVIDED TO THE DEPARTMENT WITH THE PAYMENT OF RENEWAL FEES. EVIDENCE OF LIABILITY INSURANCE IS NOT REQUIRED WITH REGISTRATION RENEWAL OF OFF-HIGHWAY VEHICLES, TRAILERS, VESSELS, OR IF YOU FILE A PNO ON THE VEHICLE.

WHEN WRITING TO DMV, ALWAYS GIVE YOUR FULL NAME, PRESENT ADDRESS, AND THE VEHICLE MAKE, LICENSE, AND IDENTIFICATION NUMBERS.

***** DO NOT DETACH - REGISTERED OWNER INFORMATION *****



REGISTRATION CARD VALID FROM: 09/30/2009 TO: 09/30/2010

MAKE	YR MODEL	YR 1ST SOLD	VLF CLASS	TYPE VEH	TYPE LIC	LICENSE NUMBER
FORD	2007	2007	MY	32K	31	8N10834
BODY TYPE MODEL	MP	MO	AX	WC	UNLADEN/G/CGW	VEHICLE ID NUMBER
TN	D	QW	2	E	35000	3FRXF75E17V515636
TYPE VEHICLE USE	DATE ISSUED	CC/ALCO	DT FEE RECVD	PIC	STICKER ISSUED	
COMMERCIAL	09/29/09	30	09/29/09	8	X0155935	

PR EXP DATE: 09/30/2009

REGISTERED OWNER
PENHALL CO
320 N CRESCENT WAY

AMOUNT PAID
\$ 1144.00

AMOUNT DUE	AMOUNT RECVD
\$ 1144.00	CASH :
	CHCK :
	CRDT :

ANAHEIM
CA 92801

LIENHOLDER
GEN ELEC CAP CORP/
BK NY TRST CO NA
PO BX 2969

SPRINGFIELD
IL 62708

H05 691 B8 0114400 0128 CM H05 092909 31 8N10834 636

24-850340

California

(STATE)

PLI
INSURANCE IDENTIFICATION CARD

COMPANY NUMBER

235

COMPANY

New Hampshire Insurance Co.

POLICY NUMBER

CA7633868

EFFECTIVE DATE

07/01/2009

EXPIRATION DATE

07/01/2010

YEAR

All

MAKE/MODEL

Vehicles Owned

VEHICLE IDENTIFICATION NUMBER

by Named Insured

AGENCY/COMPANY ISSUING CARD

**Tanenbaum-Harber Co., Inc.
320 West 57th Street
New York, NY 10019**

INSURED

**Penhall Company
Rentals-Irvine
16401 Construction Cir.
Irvine, CA 92606-4416**

5828

SEE IMPORTANT NOTICE ON REVERSE SIDE

THIS CARD MUST BE KEPT IN THE INSURED
VEHICLE AND PRESENTED UPON DEMAND

IN CASE OF ACCIDENT: Report all accidents to your Agent/Company as soon as possible. Obtain the following information:

1. Name and address of each driver, passenger and witness.
2. Name of Insurance Company and policy number for each vehicle involved.

The policy meets the requirements of Section 16056 of the California Vehicle Code.



DO NOT use ether or starting fluid
May cause damage to the engine,
explosion and severe injury



**USE API CI-4
RATED OIL ONLY**
For Extended Oil Change Intervals
Refer to the Engine Maintenance Manual

Important Engine Information
DaimlerChrysler AG, Stuttgart, Germany
Mercedes-Benz Engine Model OM 906 LA 141 238
Engine Family 600A6370LA
Exhaust Emission Control System TC EPM, DAC, ECR
Date of engine manufacture 2006
Advised output kW (hp) 135 (185) @ 2200 rpm
Fuel rate at adv. Output 128 - 136 mm³ / h
Valve lash cold (mm) 0.018 int. 0.024 exh.
Basic injection timing 14 - 21 degrees BTDC
Idle speed 800 - 550 rpm
This engine conforms to US EPA, California and Canada
regulations applicable to 2006 model year new heavy
duty engines. This engine has a primary intended service
application as a medium HD diesel engine.
This engine is not certified for use in an urban bus as defined
by 40 CFR 86.093-2. Sales of this engine for use in an urban
bus is a violation of Federal Law under the Clean Air Act.
This engine is certified to be operated on diesel fuel.

THIS VALIDATED REGISTRATION CARD OR A FACSIMILE COPY IS TO BE KEPT WITH THE VEHICLE FOR WHICH IT IS ISSUED. THIS REQUIREMENT DOES NOT APPLY WHEN THE VEHICLE IS LEFT UNATTENDED. IT NEED NOT BE DISPLAYED. PRESENT IT TO ANY PEACE OFFICER UPON DEMAND. IF YOU DO NOT RECEIVE A RENEWAL NOTICE, USE THIS FORM TO PAY YOUR RENEWAL FEES OR NOTIFY THE DEPARTMENT OF MOTOR VEHICLES OF THE PLANNED NON-OPERATIONAL STATUS (PNO) OF A STORED VEHICLE. RENEWAL FEES MUST BE PAID ON OR BEFORE THE REGISTRATION EXPIRATION DATE OR PENALTIES WILL BE DUE PURSUANT TO CALIFORNIA VEHICLE CODE SECTIONS 9552 - 9554.

EVIDENCE OF LIABILITY INSURANCE FROM YOUR INSURANCE COMPANY MUST BE PROVIDED TO THE DEPARTMENT WITH THE PAYMENT OF RENEWAL FEES. EVIDENCE OF LIABILITY INSURANCE IS NOT REQUIRED WITH REGISTRATION RENEWAL OF OFF-HIGHWAY VEHICLES, TRAILERS, VESSELS, OR IF YOU FILE A PNO ON THE VEHICLE.

WHEN WRITING TO DMV, ALWAYS GIVE YOUR FULL NAME, PRESENT ADDRESS, AND THE VEHICLE MAKE, LICENSE, AND IDENTIFICATION NUMBERS.

***** DO NOT DETACH - REGISTERED OWNER INFORMATION *****



REGISTRATION CARD VALID FROM: 09/30/2008 TO: 09/30/2009

MAKE	YR MODEL	YR 1ST SOLD	VLF CLASS	TYPE VEH	TYPE LIC	LICENSE NUMBER
FRHT	2007	2006	NJ	32K	31	8F71910
BODY TYPE MODEL	MP	MO	AX	WC	UNLADEN/G/CGW	VEHICLE ID NUMBER
TN	D	PW	2	D	30000	1FVACXS87HX81559
TYPE VEHICLE USE	DATE ISSUED	CC/ALCO	DT FEE RECVD	PIC	STICKER ISSUED	
COMMERCIAL	09/26/08	19	09/26/08	8	R8782200	
					PR EXP DATE:	09/30/2008
REGISTERED OWNER					AMOUNT PAID	
PENHALL CO					\$	923.00
16401 CONSTRUCTION CIR						
PO BX 4609					AMOUNT DUE	
					\$	923.00
ANAHEIM					AMOUNT RECVD	
CA					CASH :	
92803					CHCK :	
					CRDT :	
24- 850300						
TENHOLDER						
GE CAP CORP 1ST LIEN						
BK NY TRUST CO 2ND LIEN						
C/O CSC PO BX 2969						
SPRINGFIELD						
IL						
62708						
H05 691 E3 0092300 0043 CM H05 092608 31 8F71910 559						

COMPANY NUMBER
087

COMMERCIAL
Commerce and Industry Ins Co.

POLICY NUMBER
CA7633868AOS

EFFECTIVE DATE
06/30/2008

EXPIRATION DATE
07/01/2009

YEAR
AB

MAKE/MODEL
Vehicles

VEHICLE IDENTIFICATION NUMBER
Owned by Insured

AGENCY COMPANY ISSUING CARD
Tanenbaum-Harber Co., Inc.
320 West 57th Street
New York, NY 10019

INSURED

PENHALL COMPANY
1801 PENHALL WAY
ANAHEIM, CA 92801-6751

3824

SEE IMPORTANT NOTICE ON REVERSE SIDE

THIS CARD MUST BE KEPT IN THE INSURED
VEHICLE AND PRESENTED UPON DEMAND

IN CASE OF ACCIDENT: Report all accidents to your Agent/Company as
soon as possible. Obtain the following information:

1. Name and address of each driver, passenger and witness.
2. Name of Insurance Company and policy number for each vehicle involved.

The policy meets the requirements of Section 16056 of the California Vehicle Code.



JOHN DEERE

Product Identification Number

EF270DX703639



EXCAVATOR

DEERE & COMPANY MOLINE, ILLINOIS

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Information[New Search](#)[Help Information](#)**Engine Serial Number: PE6068L031492****Vehicle Serial Number: FF270DX703639**

Base Code:	N/A	Rating:	6068HT062
Model No:	6068HT062	EPA Family:	8JDXL06.8101
Manufactured Date:	Jan 8, 2008	EUR Family:	8JDXL06.8101
Emission Label Part No:	R527175	EPA Certificate:	JDX-NRC1-08-08
Emission Label Part No 2:	N/A	CARB Certificate:	U-R-004-0311
Parts Catalog No:	PC8440		

[Click here to view additional emission information](#)

Option Name	Ordered	Production	Distributor
Rocker Arm Cover	*	1156	*
Oil Filler Cover	*	1299	*
Crankshaft Pulley & Dampener	*	1321	*
Flywheel Housing	*	1403	*
Flywheel	*	1517	*
Fuel Injection Pump/System	*	16C7	*
Air Inlet/Intake	*	17BL	*
Oil Pan	*	1989	*
Water Pump	*	2001	*
Thermostat Cover	*	2154	*
Thermostat	*	2255	*
Fan Belt	*	24FF	*
Coolant Heater/Block Heater	*	2695	*
Exhaust Manifold	*	2873	*
Ventilating System	*	2962	*
Starting Motor	*	3031	*
Alternator	*	3150	*
Fuel Filter and Lines	*	35EN	*
Front Plate and Idler Shafts	*	3614	*
Fuel Transfer Pump	*	3713	*
Thermostat Housing/Expansion Tank (Marine)	*	3917	*
Oil Dipstick	*	4059	*
Belt-Driven Front Auxiliary Drive	*	4112	*
Starting Aid/Heater - Air Intake	*	4330	*
Speed Sensor/Tachometer Drive	*	4435	*
Cylinder Block	*	4633	*
Crankshaft and Bearings	*	4712	*
Connecting Rods and Pistons	*	4834	*

Valve Actuating Mechanism	*	4905	*
Oil Pump	*	5024	*
Cylinder Head With Valves	*	5120	*
Gear-Driven Auxiliary Drive	*	5204	*
Oil Heater	*	5497	*
Water Pump Inlet	*	5702	*
Oil Cooler and Filter	*	5945	*
Alternator Mounting	*	62A4	*
Rear Oil Seal	*	6382	*
Turbocharger	*	65TE	*
Temperature Switch	*	6698	*
Wiring Harness w/wo Sensors	*	6721	*
Serial Number Plate	*	6917	*
Operating Sensor	*	72LS	*
Fuel Filter	*	8175	*
Wiring Harness	*	8451	*
Belt Tensioner	*	8718	*
Oil Filter	*	8875	*
Description Not Available	*	8910	*
Shipping	*	9801	*

The information may not reflect running change options. Due to possible supplier changes, the description under the option name may not be representative of the actual option.

+ A Custom Power Payload™ has been requested from John Deere Custom Performance™ but the final power rating will be selected during programming. The programming event for this engine is pending.

 CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY AIR RESOURCES BOARD	John Deere Power Systems	EXECUTIVE ORDER U-R-004-0311 New Off-Road Compression-Ignition Engines
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Pursuant to the authority vested in the Air Resources Board by Sections 43013, 43018, 43101, 43102, 43104 and 43105 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-02-003;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engines and emission control systems produced by the manufacturer are certified as described below for use in off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)
2008	8JDXL08.8101	4.5, 6.8	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Turbocharger, Charge Air Cooler, Electronic Control Module, Smoke Puff Limiter, Exhaust Gas Recirculation			Loader, Tractor, Pump, Compressor, Generator Set, Other Industrial Equipment	

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for hydrocarbon (HC), oxides of nitrogen (NO_x), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NO_x), carbon monoxide (CO), and particulate matter (PM) in grams per kilowatt-hour (g/kw-hr), and the opacity-of-smoke certification standards and certification levels in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family (Title 13, California Code of Regulations, (13 CCR) Section 2423):

RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			HC	NO _x	NMHC+NO _x	CO	PM	ACCEL	LUG	PEAK
75 ≤ KW < 130	Tier 3	STD	N/A	N/A	4.0	5.0	0.30	20	15	50
130 ≤ KW < 225	Tier 3	STD	N/A	N/A	4.0	3.5	0.20	20	15	50
225 ≤ KW < 450	Tier 3	STD	N/A	N/A	4.0	3.5	0.20	20	15	50
		CERT	—	—	3.4	0.6	0.11	8	1	14

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

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

This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.

Executed at El Monte, California on this 14th day of December 2007.


 Annette Hebert, Chief
 Mobile Source Operations Division



EQ # 564

 AIR RESOURCES BOARD	CATERPILLAR, INC.	EXECUTIVE ORDER U-R-001-0289 New Off-Road Compression-Ignition Engines
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Pursuant to the authority vested in the Air Resources Board by Sections 43013, 43018, 43101, 43102, 43104 and 43105 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-02-003;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engine and emission control system produced by the manufacturer are certified as described below for use in off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)
2006	6CPXL12.5ESK	12.5	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Turbocharger, Charge Air Cooler and Engine Control Module			Loader, Tractor, Combine and Industrial Equipment	

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for hydrocarbon (HC), oxides of nitrogen (NOx), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NOx), carbon monoxide (CO), and particulate matter (PM) in grams per kilowatt-hour (g/kw-hr), and the opacity-of-smoke certification standards and certification levels in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family (Title 13, California Code of Regulations, (13 CCR) Section 2423):

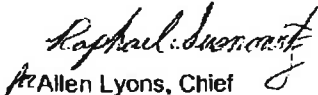
RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			HC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
225 ≤KW< 450	Tier 3	STD	N/A	N/A	4.0	3.5	0.20	20	15	50
		CERT	—	—	3.6	2.2	0.10	8	3	15

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

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

This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.

Executed at El Monte, California on this 21st day of December 2005.


 Allen Lyons, Chief
 Mobile Source Operations Division

ATTACHMENT 1 OF 1

u-R-001-0289

1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke @ peak torque	8.Fuel Rate: (lbs/hr) @ peak torque	9.Emission Control Device Per SAE J1930
Note: Peak HP	and Peak Torque	fuel rates are	nominal values.	Due to product-	ion engine avgs.	these fuel rates	may change.	EM,D,I,TC,ECM,CA
1 Cert Engine	C13	520@1800	301	182.1	1625@1400	323	152.0	EM,D,I,TC,ECM,CA
2	C13	520@1800	301	182.0	1634@1400	314	148.0	
3	C13	520@2100	266	188.0	1634@1400	314	148.0	
4	C13	463@2100	235	166.0	1565@1575	308	163.0	
5	C13	425@2100	218	154.1	1510@1400	299	140.9	
6	C13	425@2100	218	154.1	1510@1400	299	140.9	
7	C13	345@1800	200	116.8	1207@1400	240	112.6	
8	C13	371@1800	215	127.3	1300@1400	253	121.6	
9	C13	311@1800	189	114.3	1059@1400	216	101.7	
10	C13	440@2100	228	160.0	1483@1400	290	137.0	
11	C13	385@2100	194	137.0	1297@1400	249	117.0	
12	C13	415@2100	212	150.0	1398@1400	272	128.0	
14	C13	400@1200	200	142	1336@1400	258	142.0	
15	C13	385@2100	193	136.6	1297@1400	253	119.2	
16	C13	475@2100	246	173.0	1545@1400	298	140.0	

Engine Model Summary Form

Manufacturer: CATERPILLAR INC.
 Engine category: Nonroad Over 50 Hp
 EPA Engine Family: 6CPXL12.5ESK
 Mfr Family Name:
 Process Code: Running Change - 1

1. Engine Code	2. Engine Model	3. BHP @ RPM (SAE Gross)	4. Fuel Rate: mm/stroke @ peak HP (for diesel only)	5. Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6. Torque @ RPM (SEA Gross)	7. Fuel Rate: mm/stroke @ peak torque	8. Fuel Rate: (lbs/hr) @ peak torque	9. Emission Control Device Per SAE J1930
17	C13	463@2100	243	172	1586@1400	317	150	EM, DI, TC, ECM,
18	C13	304@2000	161	108	1148@1000	221	74	EM, DI, TC, ECM,
19	C13	310@2000	164	110	1167@1000	221	75	EM, DI, TC, ECM,
20	C13	314@2000	166	112	1187@1000	229	77	EM, DI, TC, ECM,
21	C13	319@2000	168	113	1207@1000	230	77	EM, DI, TC, ECM,
22	C13	325@2000	168	113	1226@1000	235	79	EM, DI, TC, ECM,
23	C13	330@2000	170	114	1245@1000	238	80	EM, DI, TC, ECM,
24	C13	334@2000	174	117	1265@1000	242	81	EM, DI, TC, ECM,
25	C13	339@2000	175	118	1285@1000	245	82	EM, DI, TC, ECM,

Engine Model Summary Form

Manufacturer: CATERPILLAR INC.
 Engine category: Nonroad Over 50 Hp
 EPA Engine Family: 6CPXL12.5ESK
 Mfr Family Name:
 Process Code: Running Change - 2

1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesel only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
9			177	107		222	104	
12			205	145		265	125	
15			193	136		252	119	
26	C13	311@1800	180	109	1058@1400	221	104	EM, DI, TC, ECM.



SERVICE INFORMATION	
MODEL NUMBER	
MACHINE D6R	ARRANGEMENT NUMBER 2221638
SEQUENCE NUMBER *NRG00186*	
ENGINE	ARRANGEMENT NUMBER 6D14290
SERIAL 147-1471-5652	
TRANSMISSION	ARRANGEMENT NUMBER 2211423
KKA00218	
CATERPILLAR INC. PEORIA, IL MADE IN UNITED STATES OF AMERICA	
PARTS ORDER 174-4590 5	

EQ # 573

AIR RESOURCES BOARD	CATERPILLAR, INC.	EXECUTIVE ORDER U-R-001-0287 New Off-Road Compression-Ignition Engines
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Pursuant to the authority vested in the Air Resources Board by Sections 43013, 43018, 43101, 43102, 43104 and 43105 of the Health and Safety Code; and

Pursuant to the December 15, 1998 Settlement Agreement between the Air Resources Board and the manufacturer, and any modifications thereof to the Settlement Agreement;

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-02-003;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engine and emission control system produced by the manufacturer are certified as described below for use in off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)
2006	6CPXL08.8ESK	8.8	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Turbocharger, Charge Air Cooler and Engine Control Module			Loader, Dozer, Scraper and Industrial Equipment	

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for hydrocarbon (HC), oxides of nitrogen (NOx), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NOx), carbon monoxide (CO), and particulate matter (PM) in grams per kilowatt-hour (g/kw-hr), and the opacity-of-smoke certification standards and certification levels in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family (Title 13, California Code of Regulations, (13 CCR) Section 2423):

RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			HC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
130 ≤ KW < 225	Tier 3	STD	N/A	N/A	4.0	3.5	0.20	20	15	50
225 ≤ KW < 450	Tier 3	STD	N/A	N/A	4.0	3.5	0.20	20	15	50
		CERT	-	-	3.7	3.1	0.15	16	3	24

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

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

This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.

Executed at El Monte, California on this 21st day of December 2005.

For Allen Lyons, Chief
 Mobile Source Operations Division

Engine Model Summary Form

ATTACHMENT 1 OF 1

Manufacturer: CATERPILLAR INC.
 Engine category: Nonroad Over 50 Hp
 EPA Engine Family: 6CPXL08.8ESK
 Mr. Family Name: NA
 Process Code: New Submission

UR-001-0287

1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lb/hr) @ peak HP (for diesel only)	6.Torque @ RPM (SAE Gross)	7.Fuel Rate: mm/stroke @ peak torque	8.Fuel Rate: (lb/hr) @ peak torque	9.Emission Control Device Per SAE J1930
1 Cert Engine	C9	375@1800	209	126.5	1250@1400	246	116.0	EM,DI,TC,ECM,CAC
2	C9	330@2100	168	118	1173@1400	227	107	EM, DI, TC, ECM,
3	C9	289@2000	153	103	885@1400	181	85	EM, DI, TC, ECM,
4	C9	258@2000	138	93	795@1400	162	76	EM, DI, TC, ECM,
5	C9	350@2100	178	125.4	1029@1400	208	98.1	EM, DI, TC, ECM,
6	C9	228@1850	136	84.5	852@1300	185	80.7	EM, DI, TC, ECM,
7	C9	325@2200	162	119.6	1095@1400	222	104.5	EM, DI, TC, ECM,
8	C9	330@2100	178	124.8	1173@1400	235	110.8	EM, DI, TC, ECM,
9	C9	311@2100	166	117.0	1106@1400	231	109.0	EM, DI, TC, ECM,
10	C9	278@2100	147	104.0	988@1400	204	96.0	EM, DI, TC, ECM,
11	C9	311@2100	163	115.0	1088@1400	228	106.0	EM, DI, TC, ECM,
12	C9	275@2200	139	103.0	927@1400	186	103.0	EM, DI, TC, ECM,
13	C9	300@2200	149	110.0	1011@1400	200	110.0	EM, DI, TC, ECM,
14	C9	350@2200	173	128.0	1148@1400	234	110.0	EM, DI, TC, ECM,
15	C9	281@1800	153	93.0	915@1400	187	88.0	EM, DI, TC, ECM,
16	C9	286@1800	167	101.0	1000@1400	203	96.0	EM, DI, TC, ECM,
17 Cert Engine	C9	480@1800	265	150.0	NA	NA	NA	EM, DI, TC, ECM,
18	C9	480@1800	265	150.0	NA	NA	NA	EM, DI, TC, ECM,
19	C9	398@1800	226	137.0	NA	NA	NA	EM, DI, TC, ECM,
20	C9	374@1800	208	127.0	NA	NA	NA	EM, DI, TC, ECM,
21	C9	386@1500	253	127.0	NA	NA	NA	EM, DI, TC, ECM,
22	C9	373@1500	245	124.0	NA	NA	NA	EM, DI, TC, ECM,
23	C9	480@1800	265	160.0	NA	NA	NA	EM, DI, TC, ECM,
24	C9	398@1800	226	137.0	NA	NA	NA	EM, DI, TC, ECM,
25	C9	480@1800	265	160.0	NA	NA	NA	EM, DI, TC, ECM,
26	C9	374@1800	209	127.0	NA	NA	NA	EM, DI, TC, ECM,
27	C9	286@2000	155	104.0	885@1400	184	87.0	EM, DI, TC, ECM,
28	C9	303@2000	188	112.0	999@1200	228	92.0	EM, DI, TC, ECM,
29	C9	264@1800	163	99.0	991@1300	204	89.0	EM, DI, TC, ECM,✓

Engine Model Summary Form

Manufacturer: CATERPILLAR INC.
 Engine category: Nonroad Over 50 Hp
 EPA Engine Family: 6CPXL08.8ESK
 Mfr Family Name:
 Process Code: Running Change -1

1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mmi/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mmi/stroke @ peak torque	8.Fuel Rate: (lbs/hr) @ peak torque	9.Emission Control Device Per SAE J1830
32	C9	213@1850	130	81	909@1300	181	79	EM,D,I,TC,ECM,CA
33	C9	213@1850	129	80	909@1300	186	82	EM,D,I,TC,ECM,CA

Manufacturer: CATERPILLAR INC.

Engine category: Nonroad Over 50 Hp

EPA Engine Family: 6CPXL08.BESK

Mfr Family Name:

Process Code: Running Change - 3

1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
35	C9	259@1600	171	92	926@1400	186	88	EM,DI,TC,ECM,CA
36	C9	375@2200	188	139	1230@1400	247	117	EM,DI,TC,ECM,CA

Engine Model Summary Form

Manufacturer: CATERPILLAR INC.
 Engine category: Nonroad Over 50 Hp
 EPA Engine Family: 6CPXL08.8ESK
 Mfr Family Name:
 Process Code: Running Change - 4

1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
37	C9	300@2100	152	108	988@1400	198	93	EM,DI,TC,ECM,CA

Engine Mod Summary Form

Manufacturer: CATERPILLAR INC.
 Engine category: Nonroad Over 50 Hp
 EPA Engine Family: 6CPXL08.8ESK
 Mr Family Name:
 Process Code: Running Change - 5

1. Engine Code	2. Engine Model	3. BHP @ RPM (SAE Gross)	4. Fuel Rate: mm/stroke @ peak HP (for diesel only)	5. Fuel Rate: (lbal/hr) @ peak HP (for diesels only)	6. Torque @ RPM (SEA Gross)	7. Fuel Rate: mm/stroke @ peak torque	8. Fuel Rate: (lbs/hr) @ peak torque	9. Emission Control Device Per SAE J1930
34	C9	350 @ 1800	206	125	1148 @ 1400	232	109	EM, DI, TC, ECM, CA

Engine Model

Manufacturer: CATERPILLAR INC.
 Engine category: Nonroad Over 50 Hp
 EPA Engine Family: 6CPXL08.8ESK
 Mfr Family Name:
 Process Code: Running Change - 6

1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
38	C9	350@1800	199	121	1151@1400	228	107	EM, DI, TC, ECM.

Engine Model Summary Form

Manufacturer: CATERPILLAR INC.
 Engine category: Nonroad Over 50 Hp
 EPA Engine Family: 6CPXL08.8ESK
 Mfr Family Name:
 Process Code: Running Change - 7

1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesel only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke @ peak torque	8.Fuel Rate: (lbs/hr) @ peak torque	9.Emission Control Device Per SAE J1930
30	C9	228@1850	132	82	980@1300	195	85	EM,DI, TC, ECM,
31	C9	228@1850	137	85	980@1300	197	90	EM,DI, TC, ECM,

Manufacturer: CATERPILLAR INC.
 Engine category: Nonroad Over 50 Hp
 EPA Engine Family: 6CPXL08.BESK
 Mr. Family Name:
 Process Code: Running Change - 3

1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm ³ /stroke @ peak HP (for diesel only)	5.Fuel Rate: (bshp) @ peak HP (for diesel only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm ³ /stroke @ peak torque	8.Fuel Rate: (lbshp) @ peak torque	9.Emission Control Device Per SAE J1930
35	C9	259@1600	171	92	926@1400	186	88	EM,D,ITC,ECM,CA
36	C9	375@2200	188	139	1230@1400	247	117	EM,D,ITC,ECM,CA

Engine Model Summary Form

Manufacturer: CATERPILLAR INC.
 Engine category: Nonroad Over 50 Hp
 EPA Engine Family: 6CPXL08.8ESK
 Mfr Family Name:
 Process Code: Running Change - 4

1. Engine Code	2. Engine Model	3. BHP @ RPM (SAE Gross)	4. Fuel Rate: mm/stroke @ peak HP (for diesel only)	5. Fuel Rate: (lb/hr) @ peak HP (for diesel only)	6. Torque @ RPM (SEA Gross)	7. Fuel Rate: mm/stroke @ peak torque	8. Fuel Rate: (lb/hr) @ peak torque	9. Emission Control Device Per SAE J1930
37	C9	300@2100	152	108	988@1400	198	93	EM,DI,TC,ECM,CA

Engine Model Summary Form

Manufacturer: CATERPILLAR INC.
 Engine category: Nonroad Over 50 Hp
 EPA Engine Family: 6CPXL08.8ESK
 Mfr Family Name:
 Process Code: Running Change - 5

1. Engine Code	2. Engine Model	3. BHP @ RPM (SAE Gross)	4. Fuel Rate: mm/stroke @ peak HP (for diesel only)	5. Fuel Rate: (lb/hr) @ peak HP (for diesels only)	6. Torque @ RPM (SEA Gross)	7. Fuel Rate: mm/stroke @ peak torque	8. Fuel Rate: (lb/hr) @ peak torque	9. Emission Control Device Per SAE J1930
34	C9	350 @ 1800	206	125	1148 @ 1400	232	109	EM, DI, TC, ECM, CA

Engine Mod

Manufacturer: CATERPILLAR INC.
 Engine category: Nonroad Over 50 Hp
 EPA Engine Family: 6CPXL08.BESK
 Mfr Family Name:
 Process Code: Running Change - 6

1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
38	C9	350@1800	199	121	1151@1400	228	107	EM, DI, TC, ECM.

Engine Model

Manufacturer: CATERPILLAR INC.
Engine category: Nonroad Over 50 Hp
EPA Engine Family: 6CPXL08.8ESK
Mfr Family Name:
Process Code: Running Change - 8

1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm ³ /stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesel only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm ³ /stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
39	C9	254@2100	134	95	782@1400	167	79	EM, DI, TC, ECM,

REGISTRATION CARD OR A FACSIMILE COPY IS TO BE KEPT WITH THE
 IS ISSUED. THIS REQUIREMENT DOES NOT APPLY WHEN THE
 ENDED. IT NEED NOT BE DISPLAYED. PRESENT IT TO ANY PEACE
 IF YOU DO NOT RECEIVE A RENEWAL NOTICE, USE THIS FORM
 ES OR NOTIFY THE DEPARTMENT OF MOTOR VEHICLES OF THE
 AL STATUS (PNO) OF A STORED VEHICLE. RENEWAL FEES MUST
 THE REGISTRATION EXPIRATION DATE OR PENALTIES WILL BE
 ORNIA VEHICLE CODE SECTIONS.9552 - 9554.

EVIDENCE OF LIABILITY INSURANCE FROM YOUR INSURANCE COMPANY MUST BE PROVIDED
 TO THE DEPARTMENT WITH THE PAYMENT OF RENEWAL FEES. EVIDENCE OF LIABILITY
 INSURANCE IS NOT REQUIRED WITH REGISTRATION RENEWAL OF OFF-HIGHWAY VEHICLES,
 TRAILERS, VESSELS, OR IF YOU FILE A PNO ON THE VEHICLE.

WHEN WRITING TO DMV, ALWAYS GIVE YOUR FULL NAME, PRESENT ADDRESS, AND THE
 VEHICLE MAKE, LICENSE, AND IDENTIFICATION NUMBERS.

***** DO NOT DETACH - REGISTERED OWNER INFORMATION *****



A Public Service Agency

REGISTRATION CARD VALID FROM: 09/30/2008 TO: 09/30/2009

MAKE FORD	YR MODEL 2007	YR 1ST SOLD 2007	VLF CLASS MY	TYPE VEH 32K	TYPE LIC 31	LICENSE NUMBER 8N10833
BODY TYPE MODEL TN	MP D	MO PW	AX 2	WC E	UNLADEN/G/CGW 35000	VEHICLE ID NUMBER 3FRXF75E77V515608
TYPE VEHICLE USE COMMERCIAL	DATE ISSUED 09/26/08	CC/ALCO 30	DT FEE RECVD 09/26/08	PIC 8	STICKER ISSUED T2944403	PR EXP DATE: 09/30/2008

REGISTERED OWNER
 PENHALL CO
 1801 PENHALL WAY

AMOUNT PAID
 \$ 1163.00

ANAHEIM
 CA 92801

LIENHOLDER
 PEN ELEC CAP CORP/
 K NY TRST CO NA
 PO BX 2969

SPRINGFIELD
 IL 62708

AMOUNT DUE
 \$ 1163.00

AMOUNT RECVD

CASH :
 CHCK :
 CRDT :



24-250350
 WATER TRUCK

H05 691 E3 0116300 0046 CM H05 092608 31 8N10833 608