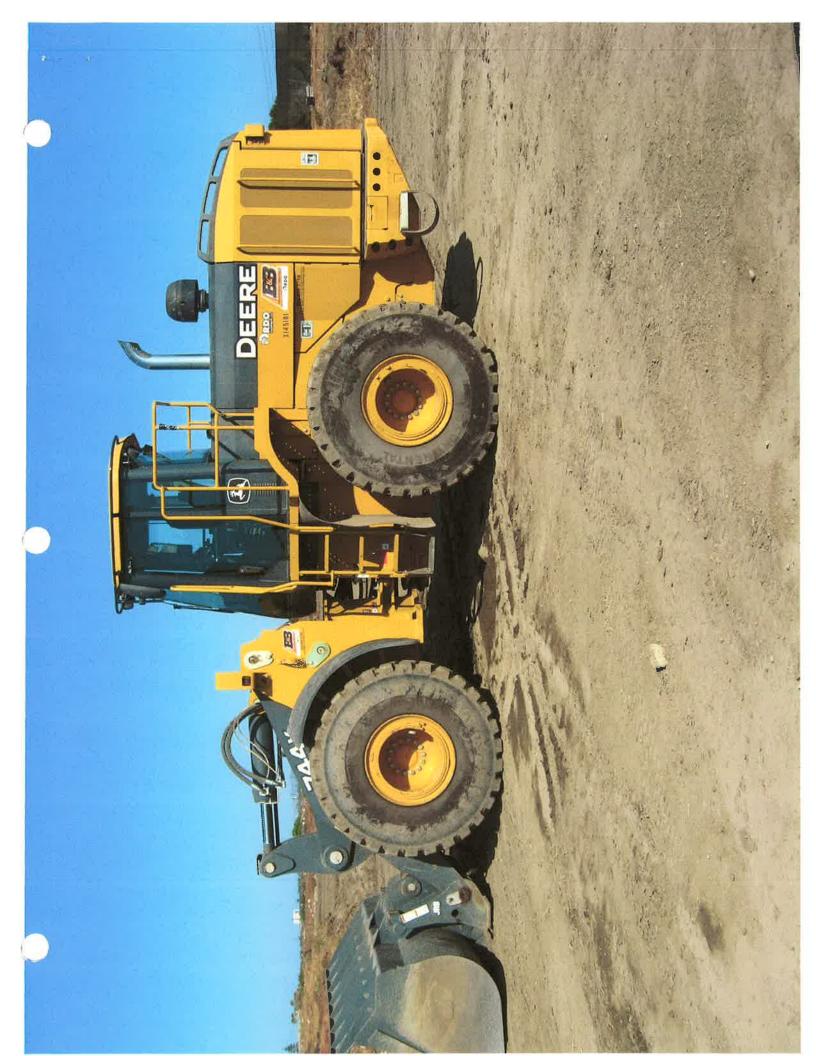
Certified Equipment List - EPA Tier 3 Emission Standards Mitigation Measure AQ-1, Mitigated Negative Declaration Interim Removal Measure, Ascon Landfill, Huntington Beach, California

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 >=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





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

74415



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Help Information

Engine Serial Number: RG6090L047660

Vehicle Serial Number: DW744KX623522

Base Code:

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:

JDX-NRCI-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	*	<u>1107</u>	*
Crankshaft Pulley & Dampener	*	1303	*
Flywheel Housing	*	1401	*
Flywheet	•	<u>1506</u>	*
Fuel Injection Pump/System	*	1603	*
Air Inlet/Intake	*	<u>1701</u>	*
Oil Pan	*	<u>1911</u>	*
Water Pump	*	2001	*
Thermostat Cover	*	<u>2107</u>	*
Thermostat	*	<u>2201</u>	*
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	*	<u>5101</u>	*
Gear-Driven Auxiliary Drive	*	<u>5203</u>	*
Paint	*	<u>5604</u>	*
Water Pump Inlet	*	5701	1 *
Oil Cooler and Filter	*	5922	*
Alternator Mounting	*	6293	*

EXECUTIVE ORDER U-R-004-0317 New Off-Road Compression-Ignition Engines

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			
	FEATURES & EMISSION		TYPICAL EQUIPMENT APPLICATION				
Direct Dies Electronic	el Injection, Turbocharg Control Module, Smoke Gas Recirculati	er, Charge Air Cooler, Puff Limiter, Exhaust on	Loader, Tractor, Dozer, Pump, Co Other Industrial E	mpressor, Generator Set, quipment			

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):

RAYED	EMISSION				EXHAUST (g/kw-t	ir)		OI	PACITY (%	4)
POWER CLASS	STANDARD CATEGORY		нс	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	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.

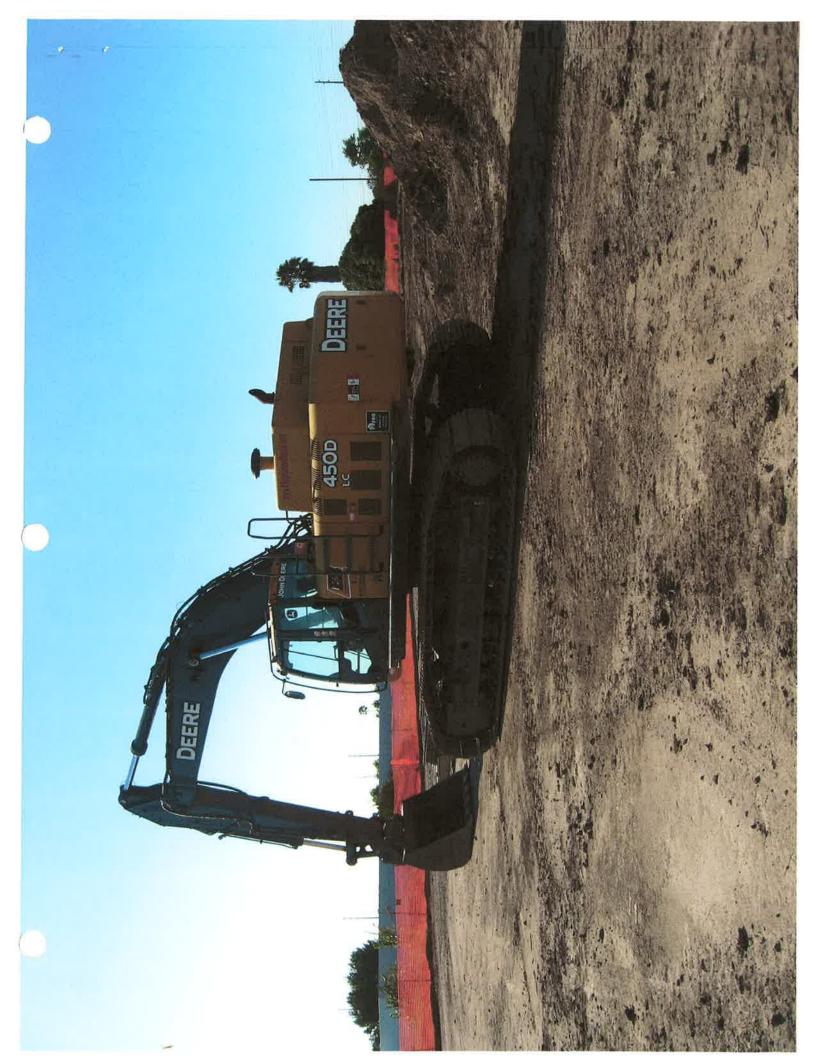
This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.

Executed at El Monte, California on this

__day of December 2007.

Annette Hebert, Chief

Mobile Source Operations Division



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ENGINE FAMILY SCRULS NOTORS ITO MADE IN JAPAN
ENGINE CODE STATISTICS NOTORS TO MADE IN JAPAN
ENGINE CODE STATISTICS NOTORS POWER
ENGINE DISPLACEMENT SSEN CEL RATE SOLO SPH
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AH-6WG1XYSA-01
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ISUZU MOTORS 170.

ENGINE CONT. SECTION STATES SAFETE AND SENGATE WORLD STATES SAFETE AND SENGATE SAFETE AND SENGATE SAFETE SAFETE AND SENGATE SAFETE SAFE

07



ISUZU MOTORS LIMITED

EXECUTIVE ORDER U-R-006-0276 New Off-Road Compression-Ignition Engines

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
	FEATURES & EMISSION		TYPICAL EQUIPMENT	APPLICATION
Direct Dies Electronic	el Injection, Turbochargo Control Module, Exhau	er, Charge Air Cooler, st Gas Recirculation	Excavator, Other Indust	trial 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	EMISSION			į.	EXHAUST (g/kW-ł	nr)		OF	ACITY (%	(a)
POWER CLASS	STANDARD CATEGORY		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 day of September 2007.

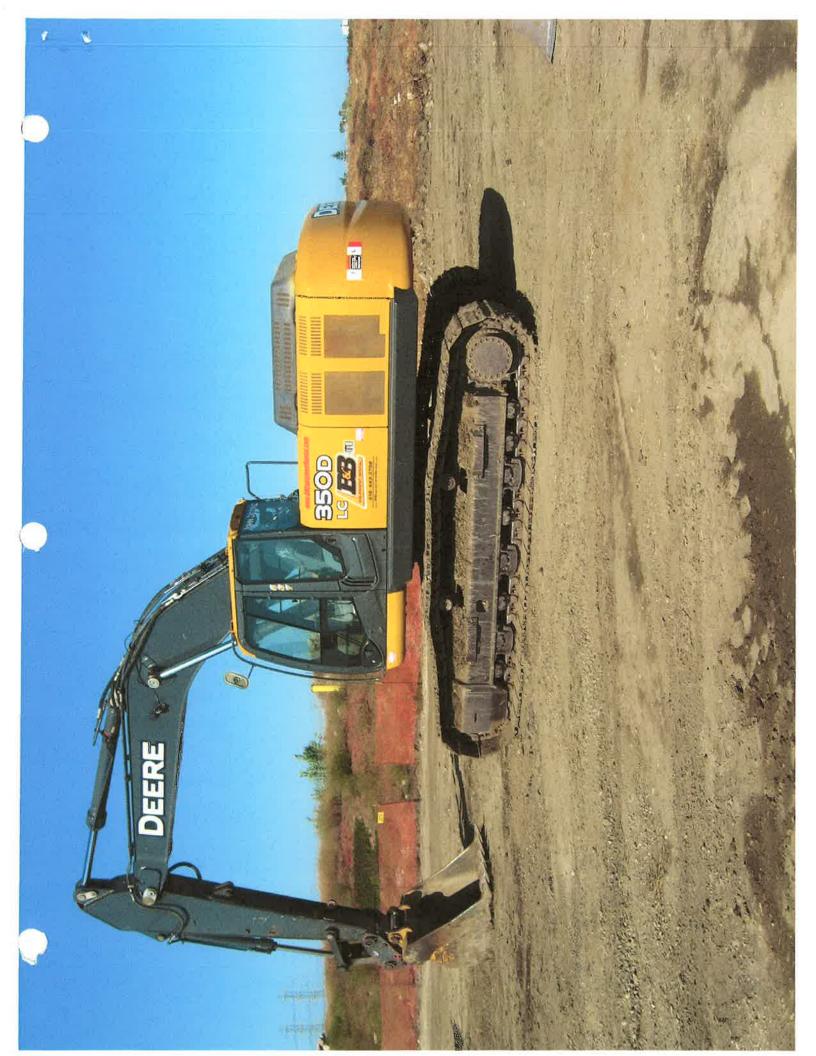
Annette Hebert, Chief

Mobile Source Operations Division

U-R-006-0276

Engine Moder Summary Template

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







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Help Information

Engine Serial Number: RG6090L033156

Vehicle Serial Number: FF350DX806389

Base Code:

N/A

Rating:

6090HT002

Model No:

6090HT002

EPA Family:

Manufactured Date:

Jan 25,2008

8JDXL09.0102

Emission Label Part No:

R527217

EUR Family: EPA Certificate: 8JDXL09.0102

JDX-NRCI-08-01

Parts Catalog No:

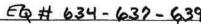
PC8478

CARB Certificate:

U-R-004-0317

Click here to view additional emission information

Option Name	Ordered	Production	Distributor
Rocker Arm Cover	*	<u>1106</u>	*
Crankshaft Pulley & Dampener	*	<u>1312</u>	*
Flywheel Housing	*	1405	*
Flywheel	*	<u>1543</u>	*
Fuel Injection Pump/System	*	1603	*
Air Inlet/Intake	*	<u>1701</u>	
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	*	<u>3509</u>	*
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	*	<u>4901</u>	*
Oil Pump	*	<u>5001</u>	*
Cylinder Head With Valves	*	<u>5101</u>	*
Gear-Driven Auxiliary Drive	*	<u>5212</u>	*
Shipping Stand	*	5513	*
Paint	*	5604	*





John Deere Power Systems

EXECUTIVE ORDER U-R-004-0317 New Off-Road Compression-Ignition Engines

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
	FEATURES & EMISSION	CONTROL SYSTEMS	TYPICAL EQUIPMENT	
Direct Dies Electronic	el Injection, Turbocharg Control Module, Smoke Gas Recirculati	er, Change Air Cooler, Puff Limiter, Exhaust ion	Loader, Tractor, Dozer, Pump, Co Other Industrial E	

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	EMISSION				+ww/g) TSUAHX	ir)		OI	ACITY (5	4)
POWER CLASS	STANDARD CATEGORY		нс	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	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

_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

JOHN DEERE POWER SYSTEMS

						Certif	cation L	evel (g	Certification Level (g/kW-hr)
Executive Order	Engine Family	Max. Disp.	Min. Power (kW)	Max. Power (kW)	Min. Max. Power Power Application (kW) (kW)	외	NOx + NOx	임	Marian
<u>U-R-004-0311</u>	8JDXL06.8101	6.8	85	236	Loader, Tractor, Pump, Compressor, Generator. Other Industrial Equipment		3.4	4 0.6	0.11
U-R-004-0312	8JDXL06.8104	6.8	138	123	Loader, Tractor, Pump, Compressor, Generator, Other Industrial Equipment		3.6	1.3	0.18
U-R-004-0312-1	8JDXL06.8104	8.8	138	177	Loader, Tractor, Pump, Compressor, Generator, Other Industrial Equipment	 	3.8	1.3	0.18
U-R-004-0313	8JDXL06.8105	8.8	78	129	Loader, Tractor, Pump, Compressor, Generator, Other Industrial Equipment	!	3.4	1.5	0.25
U-R-004-0314	8JDXL06.8106	8.8	26	74	Tractor, Pump, Compressor, Generator, Other Industrial Equipment		4.1	1.4	0.2
U-R-004-0315	8JDXL04.5111	4. تن	64	74	Pump, Compressor, Generator, Other Industrial Equipment	<u> </u>	4	0.9	0.3
U-R-004-0316	BJDXL04.5107	4.5	63	74	Pump, Compressor, Generator	-	- 4.1	2.3	0.19
U-R-004-0317	8JDXL09.0102	6	82	330	Loader, Tractor, Dozer, Pump, Compressor, Generator	<u>!</u> -	3.6	0.5	0.12
U-R-004-0318	8JDXL13.5103	13.5	261	470	Pump, Compressor, Generator, Other Industrial Equipment		3.4	9.0	-0.1
	8JDXL06.8038	8.8	186	186	Tractor, Pump, Compressor, Generator, Other Industrial Equipment		. 6.2	8.0	0.18
U-R-004-0320	8JDXL06.8049	6.8	168	205	Pump, Compressor, Generator, Other Industrial	1	5.8	0.9	0.13

8/19/2008 11:51 A.M.

John Deere Power Systems

"A Engine Family: 8JDXL09.0102

₄ Code:

352.69@2200

162.30@2200

120.38@2200

by Name: 450HAA

Nonroad CI

Re-Subralisation

Attachment p. 1057.

Engine Code	2. Engine Model	3.9HP@RPM n (SAE Gross)	4,Fuel Rain: rro/stroke @ peak HP (for desail orly)	5.Fuel Rate: (los/hr) @ pask HP (los diesels only)	f. Tompus (D. RPM (SEA Gross)	7,Fuel Rate: mm/stroke@peak torque	B.Fuel Rate: (bs/tr)@peak torque	9.Emission Control Device Per SAE J1990
901 F.4850	6090H	250 780 2200	118.40(2200)	88.45@2200	885.70@1500	179,101500	90.57@1500	EM EGR EC
90HF485P	6090H	250,78(0)2200	117,10@2200	86,89@2200	807.53@1500	160,3(2)1500	81,09@1500	EM EGR EC
000HN001	6090H	324,63(0 2200	149.20@2200	110,740,2200	1084.81@1600	202.60 1600	109,35(0)1600	EM EGR EC
90HT001B	8090H	217.25@2100	105,80@2100	74.98@2100	733,78@1575	144.4@1575	76.72@1575	EM EGR EC
90HZ003A	B090H	383.540 2200	178.7002200	132.50(32200	11063,840 1800	205.5@1800	110,90@1600.	EMEGREC "
090HRW20	6090H	219,93@2100	107,30@2100	76,0002100	741,89@1575	150@1576	79.66@ 1575	EM EGR EC
BOHRW21A	- 16090H	278.5400.2100	133.900 2100	CONTRACTOR DESCRIPTION	* 1878,410 1575 2	7	-104:88@1575	EMEGR EC
90HRW21B	6090H	242.73@2100	115,90 g 2100	82.10@2100	821.54@1575	164.1@1575	87.13@1575	EM EGR EC
ÓBOHRW22	6090H	305 08002100	141.80@2100	AND DESCRIPTION OF THE PROPERTY OF THE PARTY	AND DESCRIPTION OF THE PERSON	THE PERSON NAMED IN	The state of the s	-
090HF485U	8090H	225,30(0)2000	113,50@2000	76.57@2000	807.53@1500	160,5(0)1500	81.18@1500	EM EGR EC
090HF485B	THE RESERVE AND THE RESERVE AND THE	The party of the contract of t	F 172.30(02200)	THE COURSE OF THE PARTY OF THE		The state of the second	The state of the s	The state of the s
090HF485C	6090H	350.01@2200	181,10@2200	119,60@2200	1148.76@1500	211.9@1500	107,41@1500	
090HF4850		350 01 6 2200	THE PARTY LABOUR BY MA	TO THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	THE RESERVE OF THE PARTY OF THE PARTY.	211 90 1500	The second second second	7 17 7 9 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
090HF485G	8090H	324.53@2200	150,40@2200	111,65@2200	1148.76@1500	211.9@1500	107,19@1500	
OBOHOWO1	THE PERSON NAMED IN COLUMN TWO IS NOT	312 48 0 2100	149,5002100	THE RESERVE AND ADDRESS OF THE RESERVE AND ADDRE		198.5(0)1500	Continue to a contract	
090HF485S	6090H							The state of the s
3090HF485T	The state of the s	225,30 0 2200	107.80@2200	80.03@2200 79.08@2200	725,87@1500 807,53@1500	142.5 Q 1500	72.07@1500	EM EGR EC
	6090H	det e displace de la	The state of the s	4-m-11-11-11	M. A. A. M.	William Parties	DESCRIPTION OF THE PARTY	AND DESCRIPTION OF THE PARTY OF
6090HTJ02	THE PERSON NAMED IN COLUMN TWO	214.57@2000	110,20@2000	74,39@2000	829.65@1400	181.1@1400	CONTRACTOR OF THE PARTY OF THE	CALLED THE PROPERTY OF THE PARTY OF THE PART
6090HT#05	The state of the s	241 3960 2000	123,000,2000	Carried Control		A THE PARTY	the same and the same of the same of	the contract of the second
SOBOHHOOSA	6090H	383.54@2200	178,70@2200	132,50@2200	1083.34@1800	205.5@1600		
A STATE OF THE PARTY OF THE PAR	2 BOOK D.	The state of the s	AC 3000 2200	THE SAME OF THE SA	091.11@1600°	198.601800	10011001000	F ENEGREC
8090HF485Y	HOPOH	307,10@1800	142.10@1800	101.46@1800	521 6-2012 6 -22 5-32 5-3	CHARLES AND SERVICE	101.00-13:	EM EGR EC
8090HF485V	The state of the s	The same of the same of	232.00m1800	William Francisco	The second second	A WASTER	MAY 2	
- HTOO1A	6090H	199.15@2100	96,10@2100	68,06@2100	672.57@1575-	- 132.1@157	PRODUCE OF THE PROPERTY OF THE PARTY OF THE	THE PROPERTY OF STREET
	CHOROLL S	7,287,980 1800	158 100 1000	第74月至4460		1 203 90 140X	1400	EMEGREG
B090HRW31	6090H	299.05@2100	141.10@2100		978.41@1600	191.7@1600	103.40@160	0 EM EGR EC
BOBOLLIN MARS	609011	24 290 050 2100	内。141.10的2100	\$ 84 BAN 2100	276A101600	19176160	11, 103,400,160	OT EMEGREC
6090HF485A	6090H	417.08@2200	191.00@2200	141.85@2200	1231.57@1575	231@1575	122.85@157	5 EMEGREC
8000HF485W	1, 8030HS	384.886.1800	179 890 1800	128.91@1800	""""""	一个一个一个一个	哲学的特殊	EMEGREC
6090HF485H	6090H	324.53()2000	181,80@2000	109,15@2000	1146.76@1500	211.9@150	0 107.21@150	0 EMEGREC
NOSOHFABSIY	8090H	300,300,2200	138,800,2200	1 103 00m220	371,246,1500	180 840 150	0 191 500 150	EMEGREC .
6090HZ0038	6090H	352.69@2200	182.30@2200	120,38@2200	994.11@1800	198,6@160	0 107.10@160	0 EM EGR EC
509DHZ005C-	a - 5090H	32721 0 2200	A51.70002200	112.576220	914,45001600	031 O 160	0 97:79@180	EMEGREC
8090HRW37	6090H	299.05@2100	141,10@2100	99.94@2100	976.41@1800	191.7@160	0 103.40@160	and the same of th
6090HBW23A	6090H	3312402100	155,800,210	0.5 (0.10.150)210	1181-27/01578	210.9@157		
60POHRW23B	6090H	303,08@2100	141.80@210	0 100.400210	0 1061.21@1575			
B090HF485X	B090H	7345 396 1800	181 20(0) 180	0.41115150180	6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	the street of the street of	mission artist	EMEGREC
6090HF485F	6090H	324.53(0)2200	150.80@220	The second second second		192.4@150	0 97.38@150	
B090HF485J	6090H	(300,300)2200	10 14 15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		THE RESERVE THE PARTY OF THE PARTY OF	*** ** * * * * * * * * * * * * * * * * *		THE R. LEWIS CO., LANSING, MICH.
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6090HF485N	6090H	274.91@2200						
6090HF4850	6090H	274.91@2000	THE PERSON NAMED IN COLUMN	0 91.95(200	The state of the s		,	
6090HZ002	6090H	402.31@2200				Delta de la companya del companya de la companya de la companya del companya de la companya de l		
6090HRW44	- 6090H	299.05@2100			976.41@16bt			
6090HRW33	6090H	374,15@2100						
6090HRW36	. 6090H	374.15@2100		the same of the sa				
B090HRW39	6090H	374.15@2100	COVERNO DE LOS COMPONENTES DE LA COMPONENTE DEL COMPONENTE DE LA COMPONENT					
6090HRW42	(6080H	374.15@2100					-	
6090HRW45	6090H						-	and the last of the state of th
6090HRW46		374.15@2100						
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6090HDW03		330 442.54@1800			-			EM EGR EC
-	6090H	230,66@2200					Q0 . 91.61@16	
IDW08	6090H	295,03@2000				00 215.5@15		
EDODLIZMAD	6090H	299,05@210			0 976,41@180			
6090HZ003D	6090H	406.33@2200						
6090HRW40	6090H	299.05@2100			0 976,41@160			
6090HRW38	6090H	298.05@210		00 99.94@210		Transaction of the last of Party	-	
6090HRW41	6090H	299,05@210		00 99.94@210				when the same and
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090HF485L	6090H	399.63@2200	182.40@2200	135,39@2200	1143.07@1800	167.9@1800	118,65@1600	EM EGR EC	-
OOOHOW02	6090H . 1	286,98() 2400	128,80@2400 '	102,58@2400	814,90@1800	148.90 1800	80.32@1800	EM EGR-EC	i.
6090HTJ01		214.57@2000	110.20@2000 .	74.39@2000	829.85@1400	161,1@1400	76.20@1400	EM EGR EC	1.
6080HBW32	609013	299.05(02100	141.1002100	- 99.9402100	970:41@1600	191:76 1600	103,4000 1600	EM EGR EC	7
8090HRW35	H0608	299.05@2100	141.10@2100	99.94@2100	978.41@1600	191.7@1800	103,40@1600	EM EGR EC	1
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₼F485E	6090H	350.01@2000	175.70@2000	118.50@2000	1146,78@1500	211.9@1500	107.21@1500	EM EGR EC	1
6000HF485R	6090H∌r.	250,786,2000	123.00@2000	83.01@2000	885.70@1500	179.1@1500	90.59@1500	EM EGR EC]
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U-R-WA-U317

Attachment p. 2087

Mamufacturer:

John Deare Power Systems

ingine category. Nonroad CI

sty Name: 450HAA

.a Code:

Running Change

Attachment p. 3 of 17

U-R-004-0317

1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rule: mm/stroke @ peak HP. (for diesel prly)	5,Full Rain: (bs/fv) @ pask HP (for desels trily)	6.Torque () RPM (SEA Gross)	7,Fuel Rate; nvis/stroke@peek torque	B.Fuel Rate: (beht/)@peak torque	B.Emission Control Device Per SAE J1830
6090HTJ09	5090H.	254,80@2000	130,90@2000	88.30(2000	Control of the Contro	182.26 1400	88.09@1400	EM EGR ECSE
6090HTJ10	6090H	227.98@2000	118.30@2000	79,81@2000	829.85@1400	171@1400	80.75@1400	EM EGR EC
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Engine category: Nonroad Cl A Engine Family: BJD3QL09,0102

"> Family Name: 450HAA

JOSE Code: Running Change U-R-004-0317

Attachment p. 4 of 7

1.Engine Code	2.Engine Model	3.BHPORPM (SAE Green)	4,Fuel Rate; mm/stroke Q peak HP (for dissel only)	5.Fuel Role: (Ibs/hr) @ peek HP (for classes only)	8.Torque @ RCPU (SEA Gross)	7.Funi Rata: svn/struka@peak karque	B.Fuel Rate: [ibs/iv]@peak torque		
A FOWORIO 608	6090H	1 300 39 0 2100 J	147.70(02100	1b4,50@2100	1039,970,1500	1953@1500	98.79@1500	EMEGRECS	T'DE
6090HDW01B	6090H	280,28@2100	138,80@2100	98,85@2100	1014,16@1500		99.12@1500	EM EGR EC	11 E. C
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Manufacturer.

ohn Deere Power Systems

Engine category: Nonroad C1

'A Engine Family: 8JDXL09.0102

coss Code: Running Change

* Family Name: 450HAA

U-R-004-0317

Attachment p. 5 of 7

1.Engine Code	2.Engine Model	3.EHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fural Rate: (lbs/hr) (0 pma): HP (for diesels only)	8.Torque @ RPM (SEA Gross)	7, Fuel Rate: mm/stroke@peak torque	B.Fuel Rate; (Ibs/hr)@peak torque	9.Emis sion Control Device Per SAE J1930
6090HF485L	5090H	400.00@2200	182.40@2200	. 135,38@2200	1143,23@1600	216.1@1600	116,84@ 1600	EM EGR EC
8090HT803A	6090H	350.00@2200		120.24@2200	1087.18@1800	207.6@1600		
8090HT803B	8090H	320.50@2200	147.60@2200	109.57@2200	994.24@1800	199.6@1600	107.65@1600	EM EGR EC
6090HTJ12	6090H	237.36億2000	102.50@2000	81,35@2000	811.39@1400	135@1400	75,09@1400	EM EGR EC
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Summary Form U-R-004-0317
Attachment P. 6 of 7

Engine Famly: BJDXL09.0102

15 Family Name: 450HAA

Running Change

	ingine Model	3,8HP@RPM (SAE Gross)	mm/strate @ peak HP (for diesel only)	5.Fuel Rate. (fbs.fhr) @ peak HP (for diesels only)	5.Torque (3 RPM (SEA Gross)	7 Fuel Rain; mm/stroks@peak torque	B.Fuel Rate; (lbs/lv)@peak torque	9.Emission Control Device Per SAE J1930	
6090HT003	6090H	282.96@1900	158.10@1900	101,37@1900	1065.64@1400	203.9@1400	96.30@1400	EM EGREC	SPL,TC,CA
090HRW48	6090H	374.15@2100	175.80@2100	124.45@2100	1182.16@1800	222.9@1600	120,29@1600		
090HRW50	6090H	374.15@2100	175,80@2100	124.45@2100	1182.15@1600	222.9@1600	120,29@1600	- EM EGR EC	
090HRW52	5090H	374,15@2100	175.80@2100	124.45@2100	1182.16@1600	222.9@1600	120.29@1600	EM EGR EC	
5090HRW54	60a0H	374.15@2100	-175.80@2100	124.45@2100	1182.16@1600	222.9@1600	120.29@1600	EM EGR EC	1
5090HRW56	9030H	374.15@2100	175.80@2100	124.45@2100	1182.18@1600	222.9@1600	120.29@1600	EM EGR EC	1 ₩
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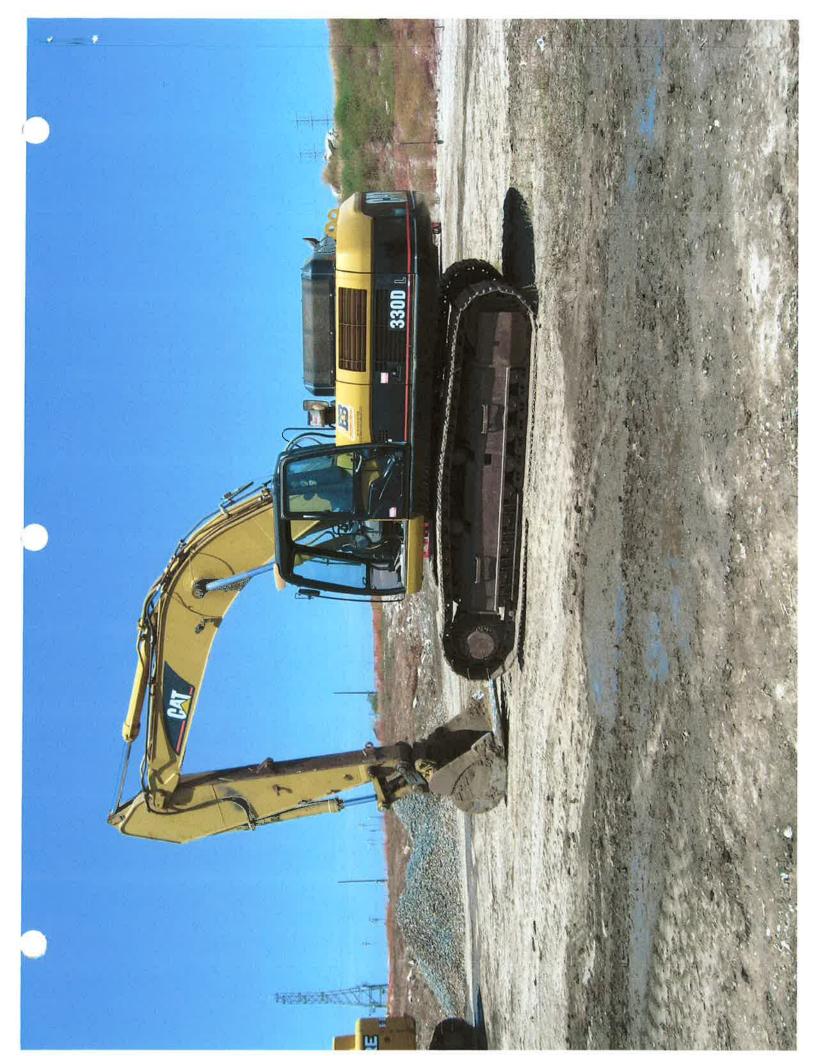
Mr Family Name: 450HAA

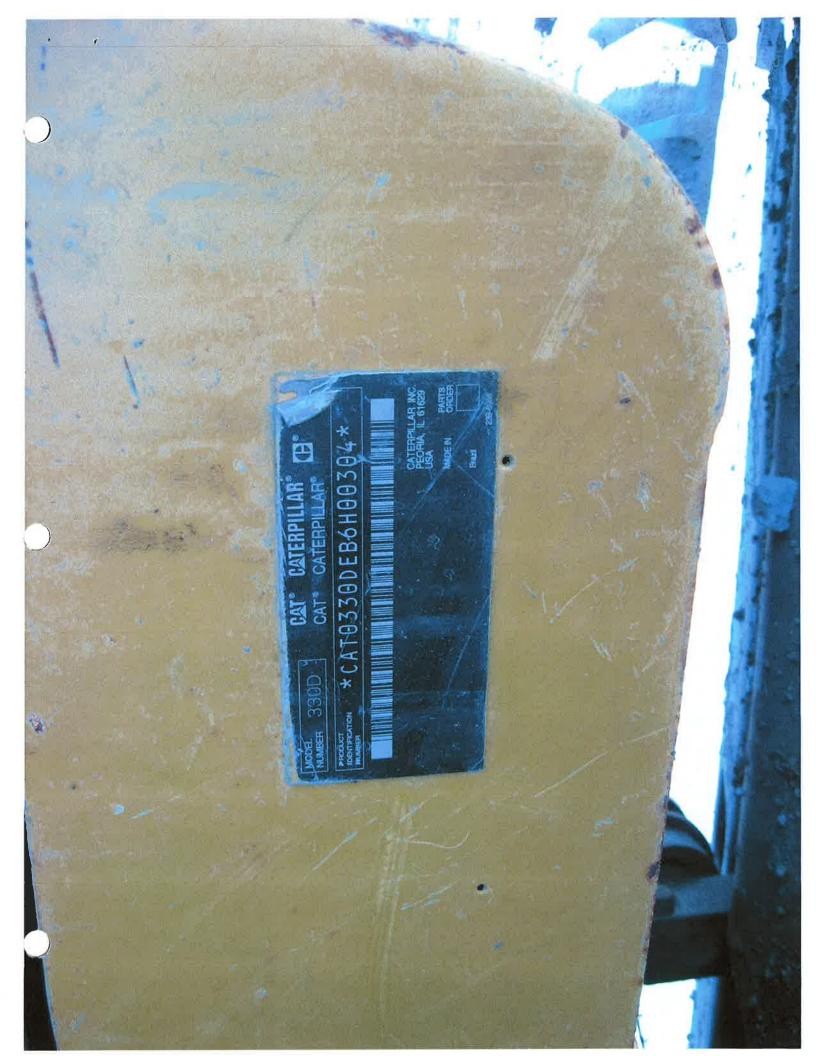
Running Change

Attachment

P. 7 of 7

I.Engine Corte	2.Engine Model	3.BHP@RPM (SAE Gross)	4. Puel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (De/hr) @ peak HP (for dissets only)	6.Torque @ RPM (SEA Gross)			8.Emission Control Owice Per SAE J1930	CAC
6090HFC48	6090H	399,63@2200	182 40@2200	135,39@2200	1143.07@1600	167,9@1600	116.65@1600	EM EGR EC	SPL DIN
8090HRW47	6090H	299,05@2100	141.10@2100	99.94@2100	976,41@1600	191.7@1600	103.40@1800	EM EGR EC	1-100
6090HRW49	6090H	299.05@2100	141.10@2100	99.94@2100	978.41@1600	191,7@1600	103.40@1800	EM EGR EC	1 1
8090HRW51	8090H	299.05@2100	141,10@2100	99.94@2100	976.41@1800	191.7@1600	103.40@1800	EM EGR EC	1 /
6090HRW53	6090H	299.05@2100	141.10@2100	99,9402100 .	976,41@1600	191.7@1800	103,40@1600	EM EGR.EC	
6090HRW55	6090H	299.05@2100	141.10@2100	99.94@2100	976,41@1600	191.7@1600	103,40@1800	EM EGR EC	1]
6090HRW 57	6090H	299.05@2100	141.10@2100	99.87@2100	976.41@1600	191.7@1600	103.40@1600	EM EGR EC	7
6090HRW58	6090H	299.05@2100	141,10@2100	99,87@2100	976.41@1600	191.7@1600	103.40@1600	EM EGR EC	
6090HRW59	6090H	299.05@2100	141,10@2100	99.87@2100	978.41@1600	191.7@1600	103,40@1600	EM EGR EC	
6090HRW64	6090H	299.05@2100	141,10@2100	99.94@2100	976,41@1600	191.7@1800	103.40@1600	EM EGR EC	1 - 1
6090HRW65	6090H	299.05@2100	141.10@2100	09.94@2100	976.41@1600	191.7@1600	103,40@1600	EM'EGR EC	1 1
6090HRW66	6090H	299.05@2100	141,10@2100	99.94@2100	976.41@1600	191.7@1800	103,40@1600	EM EGR EC	7
6090HRW67	6090H	299.05@2100	· 141,10@2100	99.94@2100	978.41@1600	191,7@1600	103.40@1600	EM EGR EC	
6090HRW68	6090H	299.05@2100	141.10@2100	99.94@2100	976.41@1600	191.7@1600	103.40@1600	EM EGR EC	
6090HRW69	6090H	299.05@2100	141,10@2100	99.94@2100	976.41@1600	191.7@1600	103,40@1600	EM EGR EC	
8090HRW70	6090H	299.05@2100	141.10@2100	99.94@2100	976.41@1600	191,7@1600	103,40@1600	EM EGR EC	1 . [
6090HRW71	H0609	209,05@2100	141,10@2100	99.940 2100	976.41@1600	- 191.7@1600	.103,40@1600	EM EGR EC	1 11
6090HRW72	6090H	299,05@2100	141,10@2100	99.94@2100	978.41@1600	191,7@1000	103,40@1600	EM EGR EC	1
6090HRW73	6090H	200.05@2100	141.10@2100	99.94@2100	978.41@1800	191.7@1800	103,40@1600	EM EGR EC	
6090HRW74	6090H	299.05@2100	141,10@2100	99.87@2100	976,41@1600	191.7@1600	103.40@160	D EM EGR EC	1 1
6090HRW76	6090H	299.05@2100	141.10@2100	99,87@2100	976.41@1600	191.7@1800	103.40@100	MEGREC	7 1
6090HT005	6090H	217.25@2100	106.70@2100	75.62@2100	733.78@1575	148@1575	78.53@1575	EM EGR EC	4
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CATERPILLAR, INC.

EXECUTIVE ORDER U-R-001-0287 New Off-Road Compression-Ignition Engines

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					
	FEATURES & EMISSION		TYPICAL EQUIPMENT APPLICATION						
Direct Dies	sel Injection, Turbocharg and Engine Control	er, Charge Air Cooler Module	Loader, Dozer, Scraper and i	ndustrial 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	EMISSION				EXHAUST (g/kw-ł	OPACITY (%)					
POWER CLASS	STANDARD CATEGORY		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 _________ day of December 2005.

Allen Lyons, Chief

Rephall Summert

Mobile Source Operations Division

ATTACHMENT 1 OF 1

Manufacturer: CATERPILLAR INC.

Engine category: Nonroad Over 50 Hp

EPA Engine Family: 6CPX1.08.8ESK

Mfr Family Name: NA

Process Code: New Submission

U-R-001-0287

اه	A.	<u> </u>	- عي	_	_	_	_	_			_			<u>_</u>	_	_				_		_	_				_		<u>></u>
9.Emission Control evice Per SAE J193	EM.DI,TC,ECM,CAC	TC, ECM	TC, ECM	TC, ECM	TC, ECM	TC, ECM	TC, ECM	TC, ECM	TC, ECM	TC, ECM	TC, ECM	TC, ECM,	TC, ECM	ပ	ပ်	ည်	TC, ECM	TC, ECM,	TC, ECM	ပ်	ပ်		TC, ECM,	TC, ECM,	TC, ECM,	ပ်	ဂ်	ည်	TC, ECM,V
9.Emissl Device Per	EM.DI,TO	EM, DI,	EM, DI	EM, DI,	EM, DI,	EM, DI,	EM, Di,	ក	EM, DI	ភ	ត	ᅙ	EM, DI	EM, DI,	EM, DI,	힏	EM, DI,	ਰੱ	ਙ	ភ	₫	ភ	EM, D,	₫	בַ	ត់	EW, 121,	ā	
8.Fuel Rate: 9.Emission Control (ibs/hr)@peak torque Device Per SAE J1930	116.0	107	82	92	98.1	80.7	104.6	110.8	109.0	0.96	106.0	103.0	110.0	110.0	88.0	0.96	₹	A N	ď Z	¥	ď	¥ V	¥	≱	Ą V	¥ V	87.0	92.0	89.0
7.Fuel Rate: mm/stroke@peak korque	246	227	181	162	208	185	222	235	231	204	226	186	200	234	187	203	¥	A A	Y.	NA	NA	₹	¥	¥	¥	¥	184	228	204
7.F. mm/str	, ii			5			•••	•	•	••	••	•															•	•	
6.Torque (\$ RPM (SEA Gross)	250@1400	173@1400	885@1400	795@1400	1029@1400	852@1300	1095@1400	173@1400	106@1400	988@1400	1098@1400	927@1400	011@1400	148@1400	915@1400	1000@1400	A A	Ą	¥	¥	≰	AN	¥	ş	¥	Ā	885@1400	999@1200	991@1300
6.Torqu (SEA	1250(1173(985@	795(1029(852(1095(1173(1106	9886	1098	9276	1011	1148(915@	1000	_	_	~	~	4	-	_	7), T)	_	_	8856	9666	991(
5.Fuel Rate: (bs/hv) @ peak HP (for diesels only)	26.5	118	103	93	25.4	84.5	119.6	124.6	17.0	04.0	15.0	103.0	110.0	128.0	93.0	0.10	160.0	0.091	137.0	127.0	127.0	124.0	0.09	37.0	0.091	127.0	104.0	112.0	0.66
5.Fue (lbs/hr) ((for dies	1	•	•	1	12	aò	1	4	#	5	=	5	Œ	12	Ö	10	16	16	13	12	12		. 16	<u> </u>	16	12	5	#	ਨ
4.Fuel Rate: nistroke @ peak HP (for diesel only)			-		m	m	2	m	(C)	_	m	•	m	۰ ۳	. ~		LO.	ın	(0	6		ıo	LC.	, , ,	· vo	a	ι. O	m	ε.
4.Fuel Rate: mm/stroke (§ peak (for diesel only)	209	168	153	138	178	136	162	176	166	147	163	139	149	173	153	167	265	265	226	209	253	245	265	226	265	209	155	166	163
3.BHP@RPM (SAE Gross)	375@1800	330@2100	289@2000	258@2000	350@2100	228@1850	325@2200	330@2100	311@2100	278@2100	311@2100	275@2200	300@2200	350@2200	261@1800	286@1800	480@1800	480@1800	398@1800	374@1800	386@1500	373@1500	480@1800	398@1800	480@1800	374@1800	286@2000	303@2000	264@1800
	37.	33	286	256	320	228	325	33	341	276	311	275	300	320	26.	286	480	48(36	374	386	373	480	36	48(374	286	30	792
2.Engine Model	65	8 8	8 8	ေ	60	6 0	60	ී	ද ද	; පු	60	හි	ေ	60	8 ස	දී දී	6 0	60	8 8	8 8	8 0	8 ව	3 2	3 0	60	ව	8 0	8 8	හි
1.Engine Code	Carl Froine	2 1 2	l erz	4	· LO	. vc	7	- 00	o ot	, p	. .	12	. £	4	, fc	16	17 Cert Fnoine	18	<u> </u>	2 5	7 8	2	1 8	2 2	25	26	27	28	29
<u> </u>	-	•															17	:											

Manufacturer: CATERPILLAR INC.

Engine category: Nonroad Over 50 Hp

FPA Engine Family. 6CPXL08.8ESK

Mfr Family Name:

8.Fuel Rate: 9.Emission Control (lbs/hr)@peak torque Device Per SAE 11930	EM,DI,TC,ECM,CA EM,DI,TC,ECM,CA
8.Fuel Rate: (lbs/hr)@peak torq	79
7.Fuel Rate: mm/stroke@peak torque	181 186
6.Torque @ RPM (SEA Gross)	909@1300 909@1300
5.Fuel Rate: (bs/hr) @ peak HP (for dissels only)	81 80
4.Fuel Rate: mm/stroke @ peak HP (for dlesel only)	130 129
3.BHP@RPM (SAE Goss)	213@1850 213@1850
2.Engine Model	වී වී
1.Engine Code	32 33

Manufacturer: CATERPILLAR INC.

Engine category: Nonroad Over 50 Hp

EPA Engine Family 6CPXL08.8ESK

Mfr Family Name:

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

EM ON IC FUN CAC CONTROL SYSTEM GIR FAMALIST EMISSON 3 DHADST THX02360 INTER INTAKE 0 64 DEGREES BIDC PHTIAL THENYS ELECTRONIC MAXIMUM WINT LARGE NOWROAD COMPRE 2006 (mm3/STROKE) MAXIMUM FUEL VALVE LASH 0.38 CHMAXIMUM RATE BHIS ENGINE IS CERTIFIED TO OPERATE ON COMMERCIALLY AVAILABLE DIESEL FUEL REMARKS CONTROL PRESENTATION AND PROPERTY. SPEED (RPM) LOW IDLE MAXIMUM MFORMS TO 2006 U.S. EPA AND CALIFORNIA RE 1400 DISPLACEMENT 8.8 1 RATED SPEED MAXIMUM. (RPM) 2200 CATERPILLAR INC. ACMERTISED MEANIMUM 480 ENGINE MODEL - C9 KW (HP) 358 6CPXLOB BESK ENGINE FAMILY THIS C9

Engine Model & __nmary Form

Manufacturer: CATERPILLAR INC.

Engine category: Nonroad Over 50 Hp

EPA Engine Family: 6CPXL08.8ESK

Mfr Family Name:

8.Fuel Rate: 9.Emission Control lbs/hr)@peak torque Device Per SAE J1930	EM,DI,TC,ECM,CA
8.Fuel Rate: (lbs/hr)@peak torque	93
7.Fuel Rate: mm/stroke@peak torque	198
6.Torque @ RPM (SEA Gross)	988@1400
5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	108
4.Fuel Rate: mm/stroke @ peak HP (II (for diesel only)	152
3.BHP@RPM (SAE Gross)	300@2100
2.Engine Model	60
.Engine Code	37

Manufacturer: CATERPILLAR INC.

Engine category: Nonroad Over 50 Hp

EPA Engine Family. 6CPXL08.8ESK

Mfr Family Name:

8.Fuel Rate: 9.Emission Control tbs/hr/@peak torque Device Per SAE J1930	EM,DI,TC,ECM,CA
8.Fuel Rate: (lbs/hr)@peak torqu	109
7.Fuel Rate: mm/stroke@peak torque	232
6.Torque @ RPM (SEA Gross)	1148@1400
5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	125
4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	206
3.BHP@RPM (SAE Gross)	350@1600
1.Engine Code 2.Engine Model	65
1.Engine Code	\$

Engine Model

Manufacturer: CATERPILLAR INC.

Engine category: Nonroad Over 50 Hp

EPA Engine Family 6CPXL08.8ESK

Mfr Family Name:

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

Engine Model Jamary Form

Manufacturer: CATERPILLAR INC.

Engine category: Nonroad Over 50 Hp

EPA Engine Family. 6CPXL08.8ESK

Mfr Family Name:

8.Fuel Rate: 9.Emission Control lbs/hr)@peak torque Device Per SAE J1930	EM,DI, TC, ECM, EM,DI, TC, ECM,
8.Fuel Rate: (lbs/hr)@peak torqu	82
7.Fuel Rate: mm/stroke@peak torque	195 197
6.Torque @ RPM (SEA Gross)	980@1300 980@1300
5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	82 85
4.Fuel Rate: mm/stroke @ peak HP (i (for diesel only)	132 137
3.BHP@RPM (SAE Gross)	228@1850 228@1850
1.Engine Code 2.Engine Model	88
1.Engine Code	30

CATERPILLAR INC. Manufacturer:

Engine category: Nonroad Over 50 Hp
EPA Engine Family: 6CPXL08.8ESK

Wir Family Name:

Running Change - 3 Process Code

8.Fuel Rate: 9.Emission Control (Ibs/hr)@peak torque Device Per SAE J1930	EM,DI,TC,ECM,CA EM,DI,TC,ECM,CA
8.Fuel Rate: (lbs/hr)@pesk toro	11.7 11.7
7,Fuel Rate: mrr/stroke@peak torque	186 247
6.Torque @ RPM (SEA Gross)	926@1400 1230@1400
5.Fuel Rate: (bs/hr) @ peak HP (for diesels only)	92 139
4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	171
3.8HP@RPM (SAE Gross)	259@1600 375@2200
2.Engine Model	පී පී
1.Engine Code	38

Manufacturer: CATERPILLAR INC.

Engine category: Nonroad Over 50 Hp

EPA Engine Family. 6CPXL08.8ESK

Mfr Family Name:

8.Fuel Rate: 9.Emission Control (bs/hr)@peak torque Device Per SAE J1930	EM,DI,TC,ECM,CA
8.Fuel Rate: (lbs/hr)@peak torqu	63
7.Fuel Rate: mm/stroke@peak torque	198
6.Torque @ RPM (SEA Gross)	988@1400
5.Fuel Rate: (lbs.ftv) @ peak HP (for diesels only)	108
4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	152
3.BHP@RPM (SAE Gross)	300@2100
.Engine Code 2.Engine Model	හි
1.Engine Code	37

Manufacturer: CATERPILLAR INC.

Engine category: Nonroad Over 50 Hp

BA Engine Family. 6CPXL08.8ESK

Mfr Family Name.

Process Code: Running Change - 5

8.Fuel Rate: 9.Emission Control bs/hr)@peak torque Device Per SAE J1930	EM,DI,TC,ECM,CA
루	109
7.Fuel Rate: mm/stroke@psak torque	232
6.Torque @ RPM (SEA Gross)	1148@1400
5.Fuet Rate: (lba/hr) @ peak HP (for diesels pnly)	125
4.Fuel Rate: mm/stroke @ peak HP (I) (for diesel only)	508
3.BHP@RPM (SAE Gross)	350@1800
.Engine Code 2.Engine Model	3
1.Engine Code	\$

Engine Model

CATERPILLAR INC. Manufacturer:

Engine category: Nonroad Over 50 Hp
EPA Engine Family: 6CPXL08.8ESK

Mfr Family Name:

Running Change - 6 Process Code:

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

Engine Model

Manufacturer: CATERPILLAR INC.

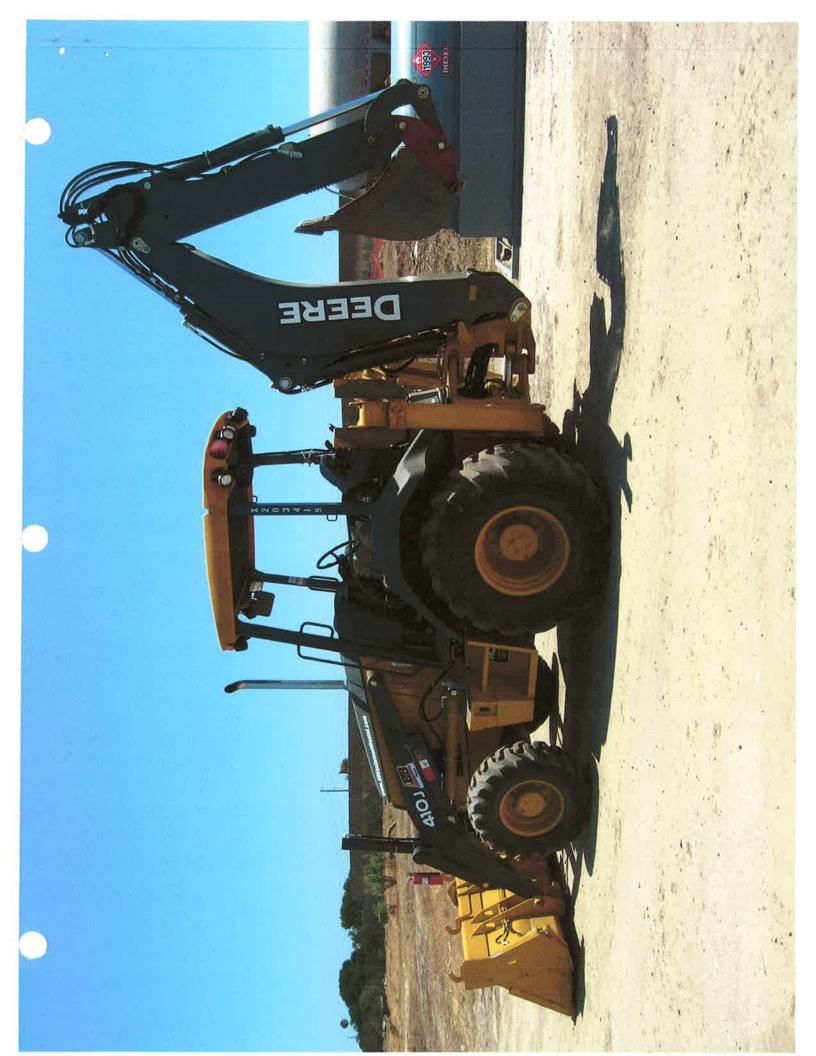
Engine category: Nonroad Over 50 Hp

BPA Engine Family: 6CPXL08.8ESK

Mfr Family Name:

Process Code: Running Change - 8

8.Fuel Rate: 9.Emission Control bs/hr)@peak torque Device Per SAE J1930	EM, DI, TC, ECM,
9	79
7.Fuel Rate: mm/stroke@peak torque	167
6.Torque @ RPM (SEA Gross)	782@1400
5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	95
4.Fuel Rate: mm/stroke @ peak HP (I (for diesel only)	134
3.BHP@RPM (SAE Gross)	254@2100
Engine Code 2.Engine Model	60
1.Engine Code	39



JOHN DEERE

Product Identification Number * T0410JX178969 *

LOADER BACKHOE

MOUNE, LLNOS

DEERE & CONPANY,

MADE IN USA

4105



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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	*	<u>1502</u>	
Fuel Injection Pump/System	*	16E3	*
Air Inlet/Intake	*	<u>17DC</u>	*
Oil Pan	*	<u>1903</u>	*
Water Pump	*	2001	*
Thermostat Cover		<u>2158</u>	*
Thermostat		2217	*
Fan Drive		<u>2301</u>	*
Fan Beit		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	*	<u>4501</u>	*
Cylinder Block	*	4643	*

John Deere Power Systems

EXECUTIVE ORDER U-R-004-0364 New Off-Road Compression-Ignition Engines

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)	USEFUL LIFE (hours)				
2009	9JDXL06.8106	4.5, 6.8	Diesel	8000			
SPECIAL	FEATURES & EMISSION	CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION				
Direct Dies Electr	el Injection, Turbocharg onic Control Module, Sm	er, Charge Air Cooler, noke Puff Limiter	Tractor, Pump, Compressor, Gene Equipmen	rator Set, Other Industrial t			

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	EMISSION			EXHAUST (g/kw-hr)				OPACITY (%)		
POWER CLASS	STANDARD CATEGORY		HC	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 day of December 2008.

Annette Hebert, Chief

Mobile Source Operations Division

U-R-004-0364

Manufacturer.

John Deere Power Systems

Engine category:

Nonroad CI 9JDXL06.8106

New Submission

350HAD

Attachment p. 1 of 3

1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/ströke @ peak HP (for diesel only)	5.Fuel Rate: (fbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	6.Fuel Rale: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J193	
4045HF285B	4045H 174V	W99.24@2400	77.90@2400	42.07@2400	339.24@1600	113.9@1600	40.99@1600	EM EC SPL	DE
4045HL280	4045H	95.22@2300	74.30@2300	38.43@2300	288.35@1600	93.6@1600	33.67@1600	EM EC SPL	10000
4045HL282A	4045H	99.24@2300	80.80@2300	40.13@2300	303.84@1600	105.8@1600	36.38@1600	EM EC SPL	
4045HL282B	4045H	95.22@2300	79.20@2300	39.25@2300	289.83@1600	102.9@1600	35.50@1600	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	7
4045HT059A	4045H 56 F	W75.10@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	Π.
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	79.60@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	
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Manufacturer:

John Deere Power Systems

Engine category:

ess Code:

Nonroad CI

FPA Engine Family: 9JDXL06.8106

Family Name: 350HAD

Running Change

Attachment

P. 2 of 3

U-R-004-0364

4.Fuel Rate: 5.Fuel Rate: mm/stroke @ peak HP (fbs/hr) @ peak HP (for diesel only) (for diesels only) 7.Fuel Rate: 3.BHP@RPM (SAE Gross) 6.Torque @ RPM mm/stroke@peak 8.Fuel Rate: 9. Emission Control 1.Engine Code 2, Engine Model (SEA Gross) (lbs/hr)@peak torque Device Per SAE J1930 EMECSPL, DET, TC, 4045HRT83F 4045H 99.24@2200 82.90@2200 41.01@2200 317.85@1650 100.7@1650 37.26@1650

Manufacturer:

John Deere Power Systems

Engine category:

ess Code:

Nonroad CI

Running Change

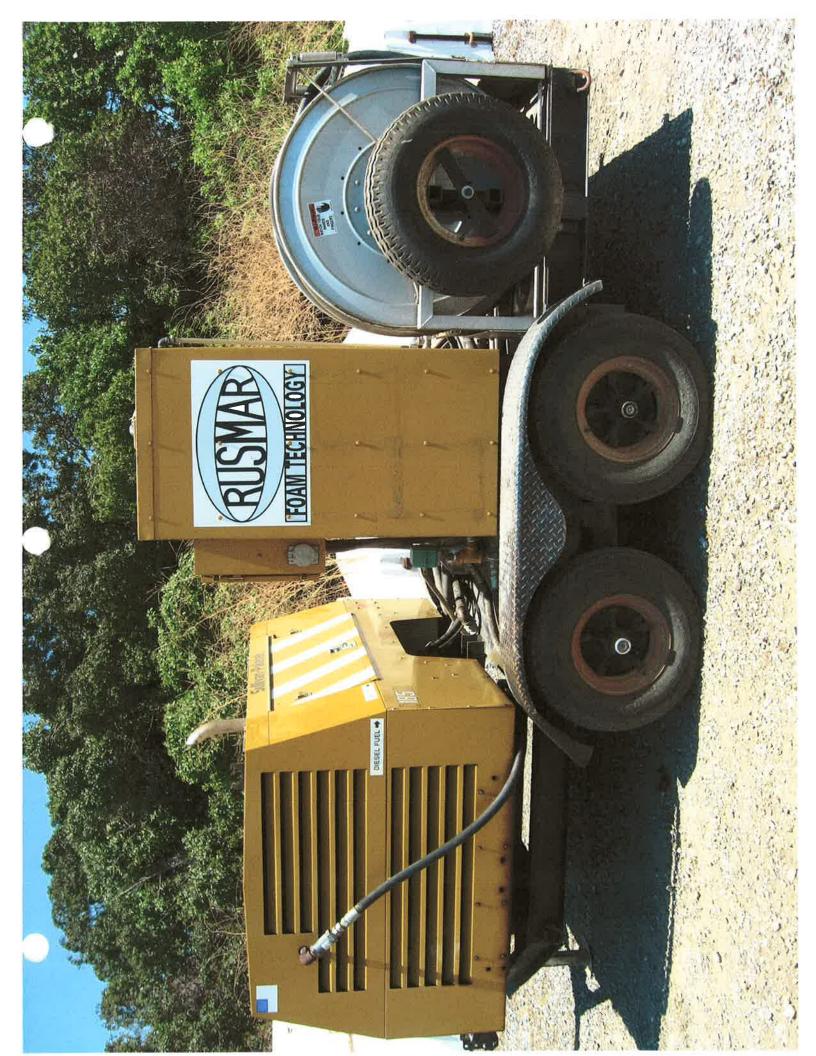
EPA Engine Family: 9JDXL06.8106

Family Name: 350HAD

Attachment

U-R-004-0364

7.Fuel Rate: mm/stroke@peak 4.Fuel Rate: '5.Fuel Rate: mm/stroke @ peak HP (lbs/hr) @ peak HP (for diesel only) (for diesels only) 6.Torque @ RPM (SEA Gross) 3.ВНР**@**RРМ 8. Fuel Rate: 9.Emission Control 2.Engine Model 1.Engine Code (lbs/hr)@peak torque Device Per SAE J1930 (SAE Gross) torque EMECSPL DELT,TC 4045HT064 4045H 37.44@2000 304.58@1500 103.4@1500 34.09@1500 99.24@2000 85.50@2000





PORTABLE EQUIPMENT REGISTRATION PROGRAM

DZP10		PSIG	RPM (D. WHEN		. INC.	E, U.S.A.
01886100	26458	S. 100	.2200.	SERIAL NO.	ORDERING PARTS	SULLIVAN-PALATEK,	EW HAMPSHIR
MODEL	SERIAL NO.	MAX. PRESS	MAX. SPEED	ALWAYS GIVE	ORDE	SULLIVAN	SLAREMONT, N
			(8)	AL			



WINE

上西湖流流了

All Resources Dualu



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



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

Krge 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

Printed on Recycled Paper



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
1onterey 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 PCD	San Luis Obispo County	(805) 781-4AIR
anta Barbara County PCD	Santa Barbara County	(805) 961-8800
hasta County AQMD	Shasta County	(530) 225-5674
iskiyou County APCD	Siskiyou County	(530) 841-4029
outh 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
ehama County APCD	Tehama County	(530) 527-3717
uolumne County APCD	Tuolumne County	(209) 533-5693
entura County APCD	Ventura County	(805) 645-1400
olo-Solano AQMD	Yolo and eastern portion of Solano counties	(000) 040-1400



Air Resources Board

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



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.

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.

- 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.

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.

- 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.

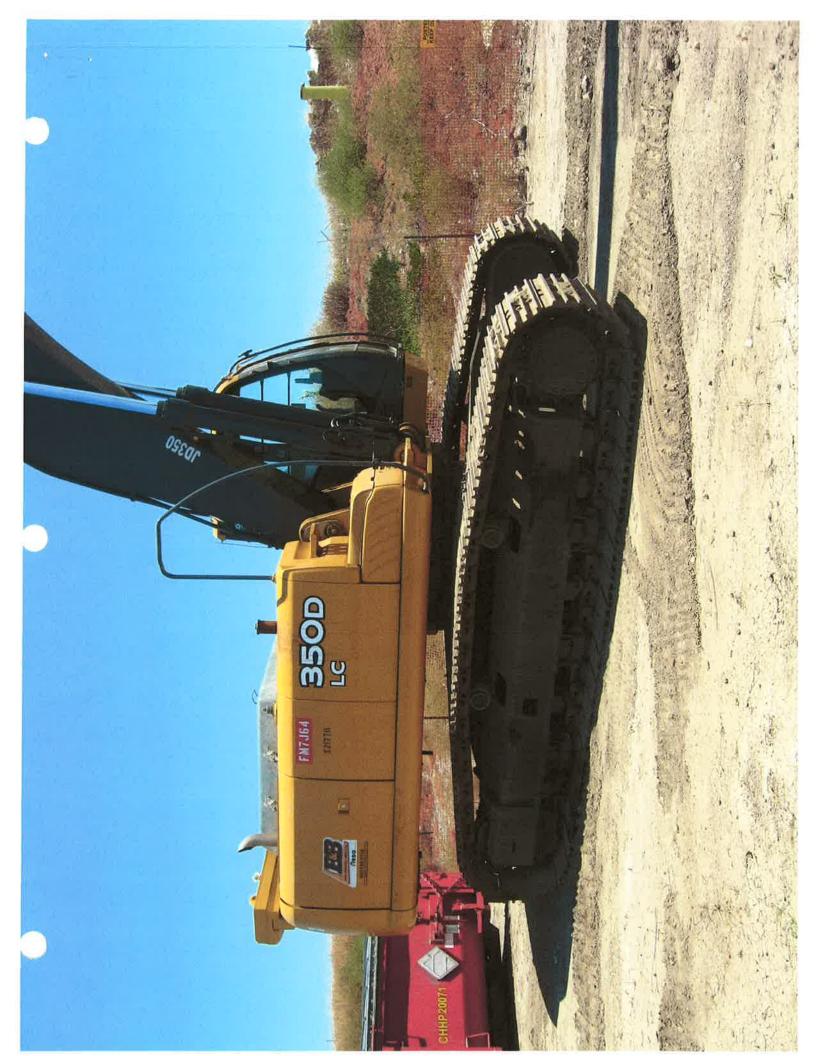
Inspection Requirements

- 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.

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

FF3500X805958 Centility Salabi



USA/Canada Home

Power Systems

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Help Information

Power Systems

Products & Equipment Services & Support

Parts

Finance Solutions Where to Buy Info Center

Emissions Information

New Search

Engine Serial Number: RG6090L018855

Vehicle Serial Number: FF350DX805958

Base Code:

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		<u>1312</u>	*
Flywheel Housing		1405	*
Flywheel	*	1543	*
Fuel Injection Pump/System	*	<u>1603</u>	*
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	*	<u>4901</u>	*
Oil Pump		5001	*
Cylinder Head With Valves	*	<u>5101</u>	*
Gear-Driven Auxiliary Drive	*	<u>5212</u>	*
Shipping Stand	*	<u>5513</u>	*
Paint	*	5604	*



JOHN DEERE POWER SYSTEMS OF DEERE

EXECUTIVE ORDER U-R-004-0304 New Off-Road Compression-Ignition Engines

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 Turbocharger, Charge / Exhaust-Gas Recirc	Air Cooler,	Loader, Tractor, Pump Generator Set, Other Indi	, Compressor, ustrial 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	EMISSION		EXHAUST (g/kW-hr)				OPACITY (%)			
POWER CLASS	STANDARD CATEGORY		НС	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	-	9:5	-	-	-
		CERT	149	-	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

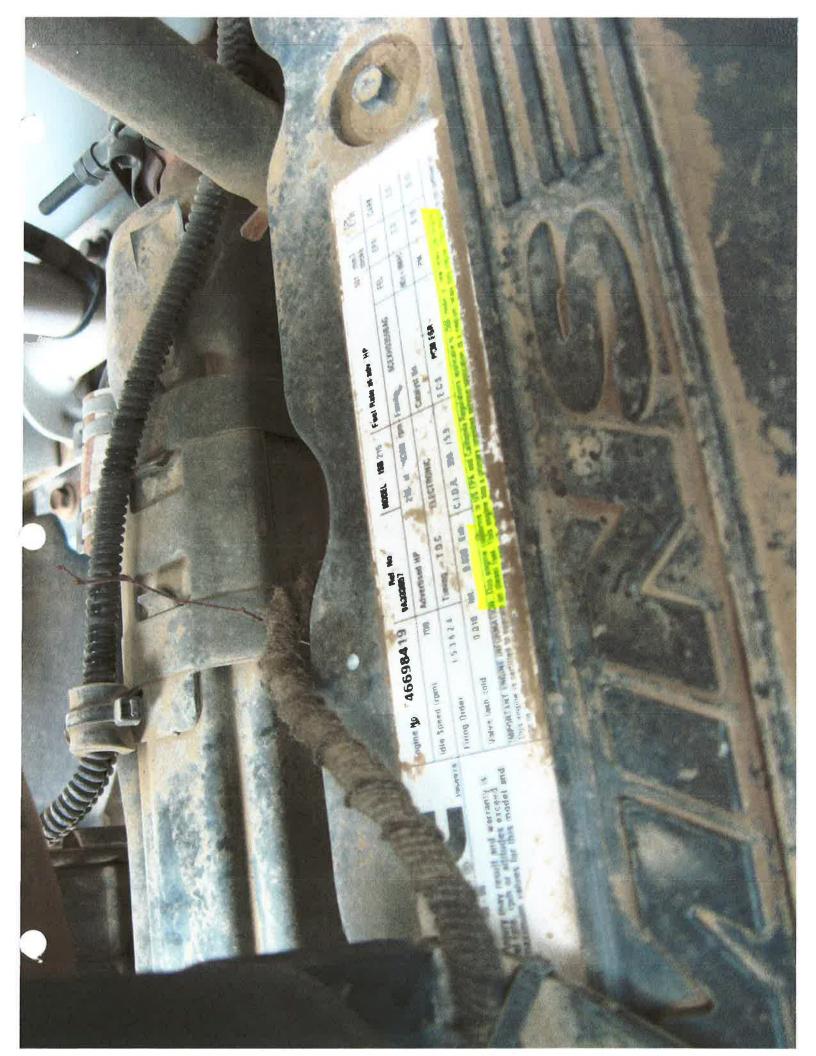
day of December 2006.

Annette Hebert, Chief

Mobile Source Operations Division







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

LICENSE NUMBER YR MODEL YR 1ST SOLD TYPE LIC VLF CLASS TYPE VEH MAKE FORD 2007 32K 31 8N10834 2007 MY МО VEHICLE ID NUMBER AX WC UNLADEN, G/CGW BODY TYPE MODEL MP 3FRXF75E17V515636 2 E 35000 D STICKER ISSUED DATE ISSUED CC/ALCO TYPE VEHICLE USE

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 : AMOUNT PAID

PENHALL CO \$ 1144.00

320 N CRESCENT WAY AMOUNT DUE AMOUNT RECVD

\$ 1144.00 CASH : CHCK :

ANAHEIM CRDT :

LIENHOLDER

, 50 tan / 3 to 3

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

SPRINGFIELD 62708

24-850340

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

California

PLI INSURANCE IDENTIFICATION CARD

(STATE)

COMPANY NUMBER

COMPANY

235

New Hampshire Insurance Co.

POLICY NUMBER

EFFECTIVE DATE

EXPIRATION DATE

CA7633868

07/01/2009

YEAR

MAKE/MODEL

07/01/2010

All

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

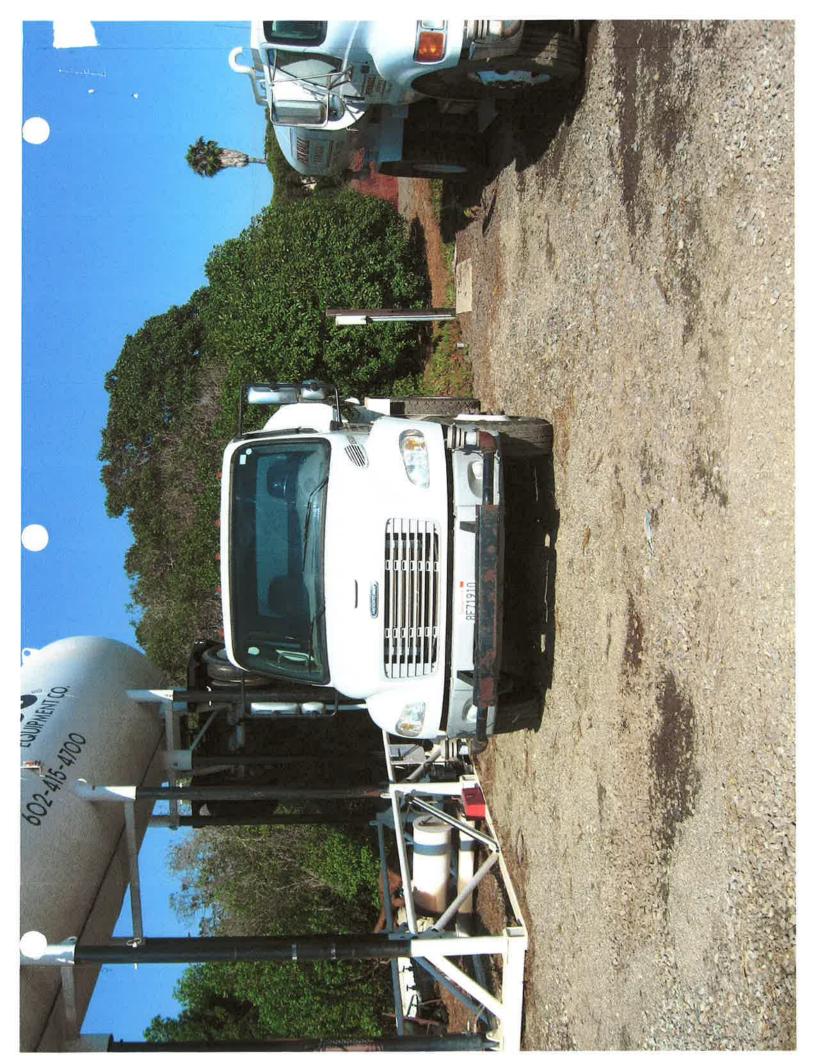
IN CASE OF ACCIDENT: Report all accidents to your Agent/Company as soon as possible. Obtain the following information:

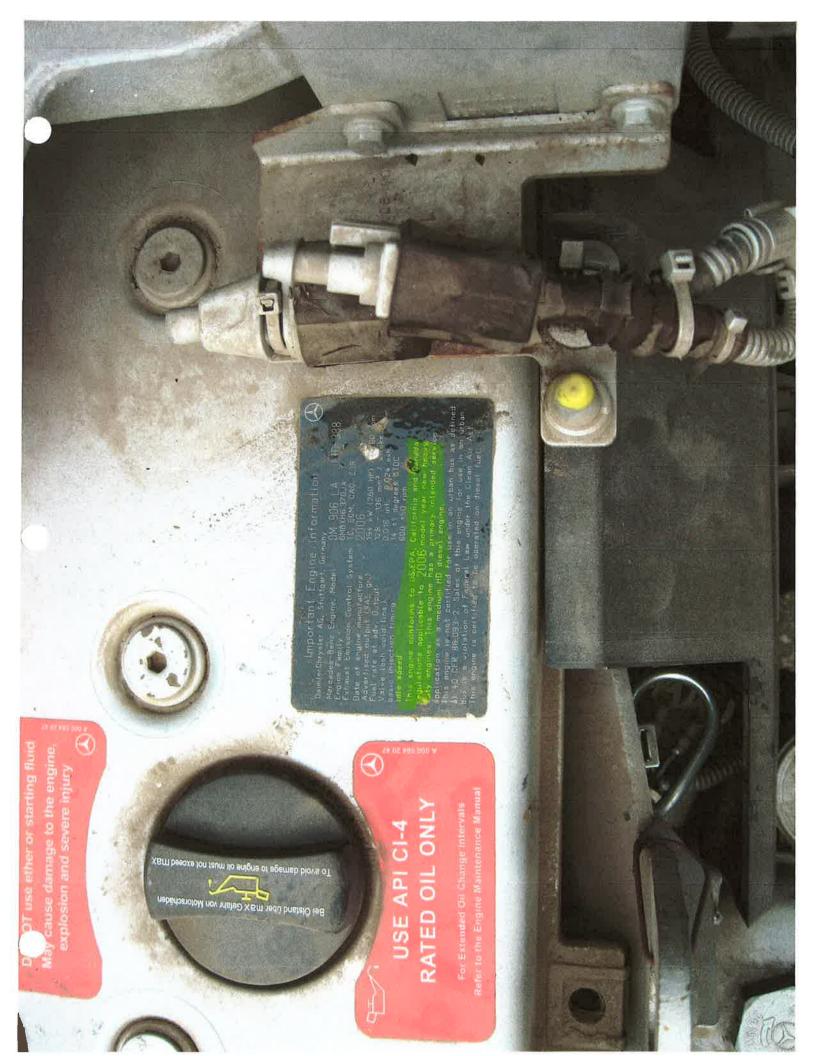
- 1. Name and address of each driver, passenger and witness.
- 2. Name of Insurance Company and policy number for each vehicle involved.

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

ACORD 50 (1/83)

@ ACORD CORPORATION 1983





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 TYPE LIC TYPE VEH MAKE YR MODEL YR 1ST SOLD VLF CLASS MU AX WC UNLADEN/G/CGW
PW 2 D 30000

DATE ISSUED CC/AI CO 8F71910 2007 2006 32K VEHICLE ID NUMBER BODY TYPE MODEL MP MO 1FVACXCS87HX81559 PWD STICKER ISSUED DT FEE RECVD PIC 09/26/08 8 CC/ALCO DT FEE RECVD TYPE VEHICLE USE COMMERCIAL R8782200 09/26/08 19 PR EXP DATE: 09/30/2008 AMOUNT PAID REGISTERED OWNER \$ 923.00 PENHALL CO 16401 CONSTRUCTION CIR AMOUNT DUE AMOUNT RECVD \$ 923.00 CASH: PO BX 4609 CHCK : CRDT : ANAHEIM 92803 CA 24- 850 300 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 NUVESS

087

Commerce and Industry Ins Co.

POLICY NUMBER CA7633868AOS

SEESCHIVE DATE 06/30/2008

*5AR

MAKEMODEL Vehicles EXPRANON DATE 07/01/2009

AB

VEHICLE IDENTIFICATION WAVEER Owned by Insured

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

PENHALL COMPANY 1801 PENHALL WAY ANAHEIM, CA 92801-6751

3824

SEE IMPORTANT NOTICE O' REVERSE SIDE

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

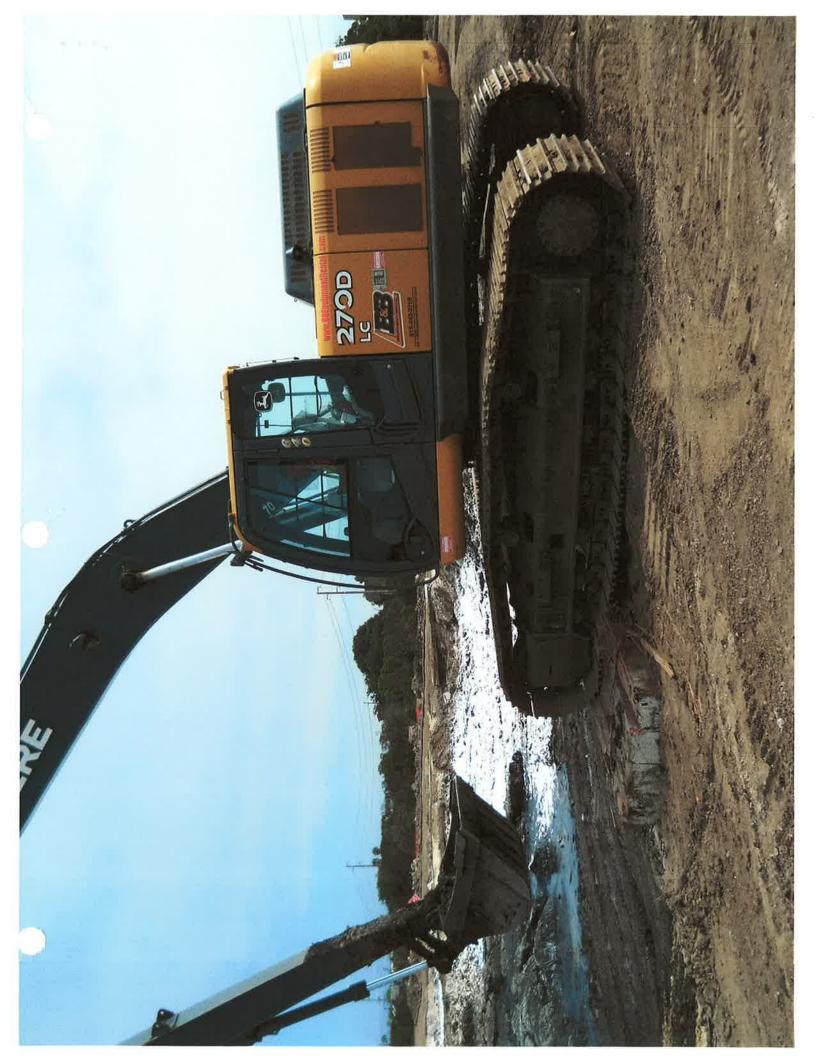
IN CASE OF ACCIDENT: Report all accidents to your Agent/Company as soon as possible. Obtain the following information:

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

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

ACORD 50 (1/23)

@ ACORD CORPORATION 1983



JOHN DEERE

Product Identification Number *FF270DX703639*

EXCAVATOR-

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Finance Solutions Where to Buy Info Center **Emissions 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 R527175

EUR Family: EPA Certificate: 8JDXL06.8101

Emission Label Part No:

N/A

JDX-NRC1-08-08

Emission Label Part No 2: Parts Catalog No:

PC8440

CARB Certificate:

U-R-004-0311

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	1
Fuel Injection Pump/System		16C7	1
Air Inlet/Intake	•	17BL	•
Oil Pan	*	1989	•
Water Pump	*	2001	
Thermostat Cover	*	2154	
Thermostat	*	2255	•
Fan Belt	*	24FF	1
Coolant Heater/Block Heater	*	2695	
Exhaust Manifold	- 4	2873	
Ventilating System	*	2962	•
Starting Motor		3031	141
Alternator	1,*)	3150	*
Fuel Filter and Lines		35EN	*
Front Plate and Idler Shafts	4	3614	*
Fuel Transfer Pump		3713	•
Thermostat Housing/Expansion Tank (Marine)		3917	W.
Oil Dipstick	*	4059	
Belt-Driven Front Auxiliary Drive	*	4112	*
Starting Aid/Heater - Air Intake	*	4330	*
Speed Sensor/Tachometer Drive	*	4435	16.
Cylinder Block	16	4633	+
Crankshaft and Bearings		4712	*
Connecting Rods and Pistons	*	4834	* .

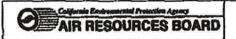
Valve Actuating Mechanism		4905	
Oil Pump		5024	*
Cylinder Head With Valves	•	5120	16
Gear-Driven Auxiliary Drive	•	5204	*
Oil Heater		5497	
Water Pump Inlet	*	5702	16
Oil Cooler and Filter	i i	5945	Á
Alternator Mounting		62A4	
Rear Oil Seal	•	6382	19
Turbocharger		65TE	,
Temperature Switch	*	6698	N
Wiring Harness w/wo Sensors	•	6721	*
Serial Number Plate		6917	4
Operating Sensor	•	72LS	
Fuel Filter	•	8175	16
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 PayloadTM has been requested from John Deere Custom PerformanceTM but the final power rating will be selected during programming. The programming event for this engine is pending.

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John Deere Power Systems

EXECUTIVE ORDER U-R-004-0311 New Off-Road Compression-Ignition Engines

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	U\$EFUL LIFE (hows)
2008	8JDXL08.8101	4.5, 6.8	Diesel	8000
SPECIAL	FEATURES & EMISSION		TYPICAL EQUIPMENT	APPLICATION
Direct Dies Electronic	el Injection, Turbocharg Control Module, Smoke Ges Recirculati	er, Charge Air Cooler, Puff Limiter, Exhaust on	Loader, Tractor, Pump, Compres Industrial Equi	sor, Generator Set, Other ipment

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	EMISSION		EXHAUST (g/kw-hr)					OPACITY (%)			
POWER CLASS	STANDARD		HC	NOx	NMHC+NOx	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	Tler 3	STD	N/A	N/A	4.0	3.5	0.20	20	15	50	
225 < kW < 450	Tler 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 ______ day of December 2007.

Annette Hebert, Chief

Mobile Source Operations Division







CATERPILLAR, INC.

EXECUTIVE ORDER U-R-001-0289

New Off-Road

Compression-Ignition Engines

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	12.5 Diesel				
	FEATURES & EMISSION		TYPICAL EQUIPMENT				
Direct Die:	sel Injection, Turbocharg and Engine Control	er, Charge Alr Cooler Module	Loader, Tractor, Combine and	d 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	EMISSION				EXHAUST (g/kw-h	m)	z nemostal	OPACITY (%)			
POWER CLASS	STANDARD CATEGORY		HC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK	
225 <kw< 450<="" td=""><td>Tier 3</td><td>STD</td><td>N/A</td><td>N/A</td><td>4.0</td><td>3.5</td><td>0.20</td><td>20</td><td>15</td><td>50</td></kw<>	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 ______2/4___ day of December 2005.

Allen Lyons, Chief

Mobile Source Operations Division

Engine Model Immary Form

THE CHIMENT I OF 1

CATERPILLAR INC. Manufacturer:

Nonroad Over 50 Hp Engine category:

EPA Engine Family 6CPXL12.5ESK

Mfr Family Name: NA

New Submission Process Code;

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Note: Peak HP and Peak Torque fuel rates are nominal values. Due to product- ion enginal values. 1 Cert Engine C13 520@1800 301 182.1 1625@3 2 C13 520@1800 266 188.0 163.0 4 C13 425@2100 218 154.1 1510@3 5 C13 425@2100 218 154.1 1510@3 7 C13 345@1800 200 116.8 1207@3 8 C13 371@1800 215 127.3 1300@3 9 C13 311@1800 189 114.3 1058@1 10 C13 440@2100 228 160.0 1483@1 11 C13 445@2100 228 160.0 1398@1 14 C13 400@1200 212 150.0 1398@1 14 C13 385@2100 246 173.0 1597@1 15 C13 475@2100 246 173.0	1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/strake @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for dlesets only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	8.Fuel Rate: 9.Emission Control (Ibs/hr)@peak torque Device Per SAE J1830
C13 520@1800 301 182.1 1 520@1800 C13 520@1800 301 182.0 1 520@2100 266 188.0 1 65.0 1		and Peak Torque	fuel rates are	nominal values.	Due to product-	ion engine avgs.	these fuel rates	may change.	EM,DI,TC,ECM,CA
C13 520@1800 301 182.0 1 C13 520@2100 266 188.0 1 C13 425@2100 218 154.1 1 C13 425@2100 218 154.1 1 C13 345@1800 200 116.8 1 C13 311@1800 215 127.3 1 C13 385@2100 228 160.0 1 C13 450@1200 228 160.0 1 C13 385@2100 212 150.0 1 C13 456@2100 246 173.0 1	1 Cert Engine	C13	520@1800	301	182.1	1625@1400	323	152.0	EM,DI,TC,ECM,CA
C13 520@2100 266 188.0 1 C13 463@2100 218 154.1 1 C13 425@2100 218 154.1 1 C13 345@1800 200 116.8 1 C13 371@1800 215 127.3 1 C13 311@1800 189 114.3 1 C13 440@2100 228 160.0 1 C13 4502100 212 150.0 1 C13 4502100 246 173.0 1	2	C13	520@1800	301	182.0	1634@1400	314	148.0	
C13 463@2100 235 166.0 1 C13 425@2100 218 154.1 1 C13 345@1800 218 154.1 1 C13 345@1800 200 116.8 1 C13 371@1800 215 127.3 1 C13 440@2100 228 160.0 1 C13 385@2100 212 150.0 1 C13 400@1200 200 142 150.0 1 C13 385@2100 200 142 150.0 1 C13 475@2100 246 173.0 1	ιņ			266	188.0	1634@1400	314	148.0	
C13 425@2100 218 154.1 C13 425@2100 218 154.1 C13 345@1800 200 116.8 C13 371@1800 215 127.3 C13 440@2100 228 160.0 C13 385@2100 194 137.0 C13 400@1200 200 142 150.0 C13 385@2100 200 142 150.0 C13 475@2100 246 173.0	4			235	156.0	1565@1575	308	163.0	
C13 425@2100 218 154.1 C13 345@1800 200 116.8 C13 371@1800 215 127.3 C13 311@1800 189 114.3 C13 440@2100 228 160.0 C13 385@2100 212 150.0 C13 400@1200 200 142 150.0 C13 385@2100 200 142 150.0 C13 475@2100 246 173.0	ល	C13	425@2100	218	152.1	1510@1400	299	140.9	
C13 345@1800 200 116.8 1	Ю	C13	425@2100	218	154.1	1510@1400	586	140.9	
C13 371@1800 215 127.3 C13 311@1800 189 114.3 C13 440@2100 228 160.0 C13 385@2100 194 137.0 C13 400@1200 200 142 C13 385@2100 193 136.6 C13 475@2100 246 173.0	7	C13	345@1800	200	116.8	1207@1400	240	112.6	
C13 311@1800 189 114.3 1 C13 440@2100 228 160.0 1 C13 385@2100 194 137.0 1 C13 400@1200 200 142 1 C13 385@2100 193 136.6 1 C13 475@2100 246 173.0 1	c co	C13	371@1800	215	127.3	1300@1400	253	121.6	
C13 440@2100 228 160.0 1 C13 385@2100 194 137.0 1 C13 415@2100 212 150.0 1 C13 400@1200 200 142 1 C13 385@2100 193 136.6 1 c13 475@2100 246 173.0 1	6	C13	311@1800	189	114.3	1059@1400	216	101.7	
C13 385@2100 194 137.0 C13 415@2100 212 150.0 C13 400@1200 200 142 C13 385@2100 193 136.6 c13 475@2100 246 173.0	5	C13	440@2100	228	160.0	1483@1400	290	137.0	
C13 415@2100 212 150.0 1 C13 400@1200 200 142 1 C13 385@2100 193 136.6 1 c13 475@2100 246 173.0 1	Ŧ	C13	385@2100	194	137.0	1297@1400	249	117.0	
C13 400@1200 200 142 1 C13 385@2100 193 136.6 1 c13 475@2100 246 173.0 1	12	C13	415@2100	212	150,0	1398@1400	272	128.0	
C13 386@2100 193 136.6 1 c13 475@2100 246 173.0 1	4	C13	400@1200	500	142	1336@1400	258	142.0	20
c13 475@2100 246 173.0 1	<u>ਦ</u> ਨ	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®ummary Form

CATERPILLAR INC. Manufacturer:

Engine category: Nonroad Over 50 Hp EPA Engine Ferth, 6CPXL12.5ESK

Mfr Family Name:

Running Change - 1 Process Code:

e: sek 8,Fuel Rate: 9,Emission Control (lbs/hr)@peak torque Device Per SAE J1930	150 EM, DI, TC, ECM,	74 EM, DI, TC, ECM,	75 EM, DI, TC, ECM,	77 EM, DI, TC, ECM,	77 EM, DI, TC, ECM,	79 EM, DI, TC, ECM,	80 EM, DI, TC, ECM,	81 EM, DI, TC, ECM,	
7.Fuel Rate: mm/stroke@pesk torque	317	221	221	229	230	235	238	242	246
8.Torque @ RPM (SEA Gross)	1586@1400	1148@1000	1167@1000	1187@1000	1207@1000	1226@1000	1245@1000	1265@1000	0001001
5.Fuel Rate: (lbs/hr) @ peak HP (for dlesels only)	172	108	110	112	113	113	114	117	077
4,Fuel Rate: m.m/stroks @ peak HP (for diesel only)	243	161	164	166	168	168	170	174	77.
3.BHP@RPM (SAE Gross)	463@2100	304@2000	310@2000	314@2000	319@2000	325@2000	330@2000	334@2000	
Engine Code 2. Engine Model	C13	C13	C13	C13	C13	C13	C13	C13	
1.Engine Code	17	18	- 61	20	21	22	23	24	

Engine N el Summary Form

Manufacturer: CATERPILLAR INC.

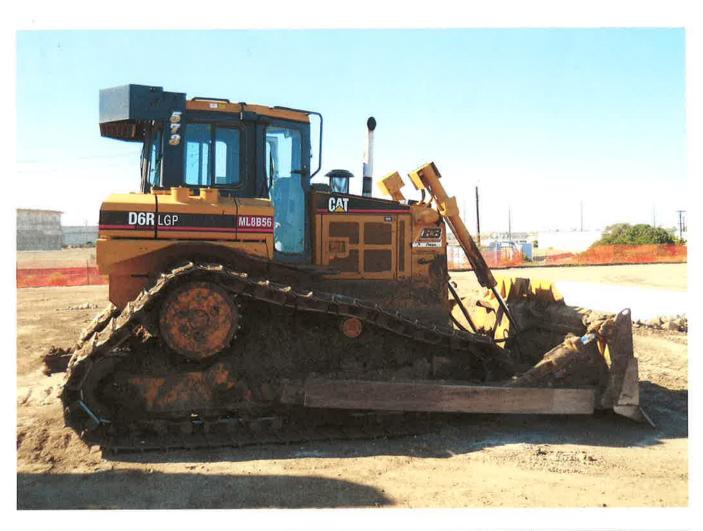
Engine category: Nonroad Over 50 Hp

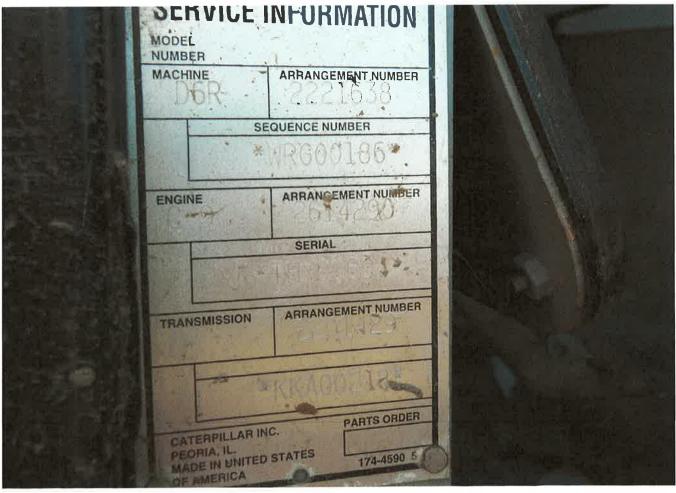
EPA Engine Family: 6CPXL12.5ESK

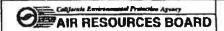
Mfr Family Name:

Process Code: Running Change - 2

8.Fuel Rate: 9.Emission Control !bs/hr)@peak torque Device Per SAE J1930				EM, DI, TC, ECM,
B,Fuel Rate: (ibs/hr)@peak torqu	104	125	119	104
7.Fuel Rate mm/stroke@peak torque	222	265	252	221
6.Torque @ RPM (SEA Gross)				1058@1400
5,Fuel Rato: (lbs/hr) @ peak HP (for diesels only)	107	145	136	109
4.Fuel Rate: 5.Fuel Rate: mm/stroke @ peak HP (lbs/hr) @ peak HP (for diesel only) (for diesels only)	177	205	193	180
3.BHP@RPM (SAE Gross)				311@1800
.Engine Code 2.Engine Model				C13
1.Engine Code	ത	12	15	56







CATERPILLAR, INC.

EXECUTIVE ORDER U-R-001-0287 New Off-Road Compression-Ignition Engines

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	B Diesel					
SPECIAL	FEATURES & EMISSION		TYPICAL EQUIPMENT					
Direct Die:	sel Injection, Turbocharg and Engine Control	er, Charge Air Cooler 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	EMISSION		EXHAUST (g/kw-hr)					OPACITY (%)		
POWER CLASS	STANDARD CATEGORY		НС	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 21³ day of December 2005.

Rephall Sugmarity

Mobile Source Operations Division

Engine Mo. Summary Form

ATTACAMENT 1 OF 1

Manufacturer. CATERPILLAR INC.

Engine category: Nonroad Over 50 Hp

BA Engine Family. 6CPXL08.8ESK

Mfr Femily Name: NA

Process Code: New Submission

U-R-001-0287

168 118 1173@1400 227 107 EM, DI, TC, ECJ 138 93 103 886@1400 181 85 EM, DI, TC, ECJ 138 93 125 103 886@1400 182 82 75 EM, DI, TC, ECJ 142 84.5 826@1400 222 104.5 EM, DI, TC, ECJ 142.6 1175.0 1086@1400 222 104.5 EM, DI, TC, ECJ 142.6 1177.0 1106@1400 222 104.5 EM, DI, TC, ECJ 142.6 1177.0 1106@1400 228 110.8 EM, DI, TC, ECJ 142.7 104.0 986@1400 228 110.8 EM, DI, TC, ECJ 142.7 104.0 986@1400 228 110.8 EM, DI, TC, ECJ 143.8 115.0 1016@1400 228 110.0 EM, DI, TC, ECJ 143.8 112.0 EM, DI, TC, ECJ 143.8 11	2.Engine Madel	3.BHP@RPM (SAE Grost) 375@1800	4.Fuel Rate: mm/stroke @ peak HP (for diesel only) 209	S.Fuel Rate: (lbs/hv) @ peak HP (for clessels only) 126.5	6. Tarque @ RPM (SEA Gross) 1250@1400	7,Fuel Rate: mm/stroke@peak lorque 246	8.Fuel Rate: (Iba/hr)@peak torque 116.0	9.Emission Control Device Per SAE J1930 EM.DI,TC,ECM,CAC
163 885億1400 181 85 EM, DI, 183 885億1400 182 76 EM, DI, 183 885億1400 208 88.1 EM, DI, 184.5 86.2 EM, DI, 185 80.7 EM, DI, 22 104.5 EM, DI, 22 104.5 EM, DI, 22 104.5 EM, DI, 22 104.5 EM, DI, 22 110.6 EM, DI, 22 110.6 EM, DI, 22 110.6 EM, DI, 23 110.0 EM, DI, 23 110.0 EM, DI, 23 110.0 EM, DI, 24 115.0 1098@1400 204 98.0 EM, DI, 24 115.0 1098@1400 204 98.0 EM, DI, 28 110.0 EM, DI, 29 110.0 EM, DI, 20 20 EM, DI, DI, 20	330@2100	×	168	118	1173@1400	227	107	
84.5 年 1025億月400 162 76 EM, D1, 125.4 1025億月400 208 98.1 EM, D1, 22.1 119.6 11025億月400 222 104.5 EM, D1, 22.1 119.6 11036億月400 235 110.8 EM, D1, 22.1 110.9 EM, D1, 22.1 110.0 EM, D1, 22.1 NA NA EM, D1, 22.1 NA EM, D1, 22.1 NA NA EM, D1, 22.1 NA NA EM, D1, 22.1 EM, D1,	289@2000		153	103	885@1400	181	82	EM, DI, TC, ECM,
84.5 4029@1400 208 98.1 EM, DI, DI, DI, DI, DI, DI, DI, DI, DI, DI	258@2000		138	93	795@1400	162	92	ត
6 84.5 652@1300 185 80.7 EM, DI, TG 119.6 1195@1400 222 104.6 EM, DI, TG 117.0 1106@1400 231 109.0 EM, DI, TG 117.0 1106@1400 231 109.0 EM, DI, TG 113.0 927@1400 226 106.0 EM, DI, TG 113.0 927@1400 200 1100.0 EM, DI, TG 128.0 1146@1400 200 1100.0 EM, DI, TG 101.0 1000@1400 203 110.0 EM, DI, TG 101.0 NA NA EM, DI, TG 127.0 NA NA EM, DI, TG, TG, TG, TG, TG, TG, TG, TG, TG, TG	350@2100		178	125.4	1029@1400	208	98.1	EM, DI, TC, ECM,
222 104.5 EM, DI, TG 124.6 1173@1400 235 110.8 EM, DI, TG 117.0 1106@1400 235 110.8 EM, DI, TG 117.0 1106@1400 226 109.0 EM, DI, TG 115.0 1098@1400 226 106.0 EM, DI, TG 110.0 1011@1400 226 103.0 EM, DI, TG 110.0 1011@1400 226 103.0 EM, DI, TG 110.0 1011@1400 226 110.0 EM, DI, TG 110.0 1010@1400 203 88.0 EM, DI, TG 127.0 NA NA NA EM, DI, TG 127.0 NA NA EM, DI, TG, DI	228@1850		136	84.5	852@1300	185	80,7	
6 117.0 1106@1400 235 110.8 EM, DI, TG 117.0 1106@1400 231 109.0 EM, DI, TG 117.0 1106@1400 226 109.0 EM, DI, TG 115.0 1098@1400 226 106.0 EM, DI, TG 110.0 1011@1400 226 103.0 EM, DI, TG 110.0 1011@1400 226 110.0 EM, DI, TG 112.0 EM, DI, TG, EM, DI, TG, DI, TG	325@2200		162	119.6	1085@1400	222	104.5	ă
6 117.0 1106@1400 231 109.0 EM, DI, TG 104.0 988@1400 204 96.0 EM, DI, TG 115.0 1098@1400 228 106.0 EM, DI, TG 103.0 927@1400 188 103.0 EM, DI, TG 110.0 1011@1400 200 110.0 EM, DI, TG 101.0 1000@1400 2034 110.0 EM, DI, TG 101.0 1000@1400 2033 96.0 EM, DI, TG 101.0 NA NA EM, DI, TG 102.0 NA NA EM, DI, TG 127.0 EM,	330@2100	-	176	124.8	1173@1400	235	110.8	EM, DI, TC, ECM,
115.0 1988@1400 226 106.0 EM, DI, TG 103.0 EM, DI, TG 103.0 226 103.0 EM, DI, TG 103.0 226 103.0 EM, DI, TG 110.0 144.00 200 110.0 EM, DI, TG 110.0 EM, DI, TG 128.0 144.8@1400 23.4 110.0 EM, DI, TG 101.0 1000@1400 203 96.0 EM, DI, TG 101.0 NA NA EM, DI, TG 127.0 EM, DI, TG, EM,	311@2100		166	117.0	1106@1400	231	109.0	
115.0 1038@1400 228 106.0 EM, DI, TG 103.0 EM, DI, TG 103.0 927@1400 200 110.0 EM, DI, TG 110.0 EM, DI, TG 128.0 1011@1400 203 110.0 EM, DI, TG 101.0 EM, DI, T	278@2100	•	147	104.0	988@1400	204	96.0	
103.0 927@1400 188 103.0 EM, DI, TC 110.0 EM, DI, TC 128.0 1011@1400 200 110.0 EM, DI, TC 128.0 1011@1400 203 110.0 EM, DI, TC 101.0 1000@1400 203 96.0 EM, DI, TC 160.0 NA NA EM, DI, TC 127.0 NA NA EM, DI, TC 160.0 E	311@2100	Υ-	163	115.0	1098@1400	228	106.0	ă
110.0 1011@1400 200 110.0 EM, DI, TC 128.0 1448@1400 234 110.0 EM, DI, TC 93.0 93.0 915@1400 233 96.0 EM, DI, TC 160.0 NA NA EM, DI, TC 127.0 NA NA EM, DI, TC 160.0 EM, DI	275@2200	-	139	103.0	927@1400	186	103.0	
128.0 1148@1400 234 110.0 EM, DI, TO 93.0 93.0 915@1400 203 96.0 EM, DI, TO 1000@1400 203 96.0 EM, DI, TO 160.0 NA NA EM, DI, TO 127.0 NA NA EM, DI, TO 160.0 S99@1200 228 82.0 EM, DI, TO 170, DI, TO,	300@2200	_	149	110.0	1011@1400	500	110.0	₫
93.0 915@1400 187 88.0 EM, DI, TO 1000@1400 203 96.0 EM, DI, TO 150.0 NA NA EM, DI, TO 127.0 NA NA EM, DI, TO 127.0 NA NA EM, DI, TO 124.0 NA NA EM, DI, TO 150.0 NA NA EM, DI, TO 150.0 NA NA EM, DI, TO 160.0 EM,	350@2200	-	173	128,0	1148@1400	234	110.0	ລັ
160.0 NA NA EM, DI, TO 160.0 NA NA EM, DI, TO 127.0 SSS@1400 184 87.0 EM, DI, TO 112.0 SSSS@1200 228 82.0 EM, DI, TO, TO, TO, TO, TO, TO, TO, TO, TO, TO	261@1800	-	153	930	915@1400	187	88,0	ลั
150.0 NA NA EW, DI, TO 150.0 NA NA EW, DI, TO 127.0 NA NA EW, DI, TO 150.0 NA NA EW, DI, TO 150.0 NA NA EW, DI, TO 157.0 NA NA EW, DI, TO 160.0 SSS@1400 184 87.0 EW, DI, TO 112.0 SSSG@1200 228 82.0 EW, DI, TO, 112.0 SSSG@1200 228 89.0 EW, DI, TO, 170.0 TO,	286@1800	-	167	101.0	1000@1400	203	96.0	EM, DI, TC, ECM,
137.0 NA NA NA EM, DI, TC 127.0 NA NA EM, DI, TC 127.0 NA NA EM, DI, TC 124.0 NA NA EM, DI, TC 124.0 NA EM, DI, TC 124.0 NA EM, DI, TC 124.0 NA EM, DI, TC 127.0 NA NA EM, DI, TC 127.0 S99@1200 228 89.0 EM, DI, TC, 112.0 S99@1200 204 89.0 EM, DI, TC, TC, TC, TC, TC, TC, TC, TC, TC, TC	480@1800	7	265	150.0	¥ Z	¥	ş	₫
137.0 NA NA NA EM, DI, TC 127.0 NA NA EM, DI, TC 124.0 NA NA EM, DI, TC 124.0 NA NA EM, DI, TC 124.0 NA NA EM, DI, TC 160.0 NA NA EM, DI, TC 137.0 NA NA EM, DI, TC 127.0 NA NA EM, DI, TC 104.0 899@1200 228 99.0 EM, DI, TC, 99.0 991@1300 204 89.0 EM, DI, TC, TC, TC, TC, TC, TC, TC, TC, TC, TC	480@1800	N	592	160.0	N A	¥	Ϋ́	ā
127.0 NA NA EM, DI, TC 124.0 NA NA EM, DI, TC 124.0 NA NA EM, DI, TC 160.0 NA NA EM, DI, TC 137.0 NA NA EM, DI, TC 160.0 NA NA EM, DI, TC 127.0 NA NA EM, DI, TC 104.0 885@1400 184 87.0 EM, DI, TC, 112.0 991@1200 228 99.0 EM, DI, TC, 99.0 991@1300 204 89.0 EM, DI, TC, 170, 170, 170, 170, 170, 170, 170, 170	398@1800	6	526	137.0	V	AN	ΑN	ດັ
127.0 NA NA EM, DI, TC 124.0 NA NA EM, DI, TC 160.0 NA NA EM, DI, TC 137.0 NA NA EM, DI, TC, 127.0 NA NA EM, DI, TC, 127.0 NA NA EM, DI, TC, 104.0 885@1400 184 87.0 EM, DI, TC, 112.0 999@1200 228 82.0 EM, DI, TC, 99.0 991@1300 204 89.0 EM, DI, TC,	374@1800	7	50	127.0	NA	AN		EM, DI, TC, ECM,
124.0 NA NA EM, DI, TC 160.0 NA NA EM, DI, TC, 137.0 NA NA EM, DI, TC, 127.0 NA NA EM, DI, TC, 104.0 885@1400 184 87.0 EM, DI, TC, 112.0 999.0 991@1300 204 89.0 EM, DI, TC, 99.0	386@1500	N	.53	127.0	NA	Y.	Ą.	
160.0 NA NA EM, DI, TC, 137.0 NA NA EM, DI, TC, 160.0 NA NA EM, DI, TC, 127.0 NA NA EM, DI, TC, 104.0 885@1400 184 87.0 EM, DI, TC, 112.0 991@1200 228 92.0 EM, DI, TC, 99.0 991@1300 204 89.0 EM, DI, TC, 17C, 17C, 17C, 17C, 17C, 17C, 17C, 17	373@1500	Ñ	45	124.0	¥	A A		EM, DI, TC, ECM,
137.0 NA NA EM, DI, TC, 160.0 NA NA EM, DI, TC, 127.0 NA NA EM, DI, TC, 104.0 885@1400 184 87.0 EM, DI, TC, 112.0 991@1200 228 92.0 EM, DI, TC, 99.0 991@1300 204 89.0 EM, DI, TC, 17C, 17C, 17C, 17C, 17C, 17C, 17C, 17	480@1800	ñ	65	160.0	A'N	Š		ລັ
160.0 NA NA EM, DI, TC, 127.0 NA NA EM, DI, TC, 104.0 885@1400 184 87.0 EM, DI, TC, 112.0 991@1200 228 92.0 EM, DI, TC, 99.0 991@1300 204 89.0 EM, DI, TC, 17C, 17C, 17C, 17C, 17C, 17C, 17C, 17	398@1800	Ŋ	56	137.0	¥ Z	ž		ភ
127.0 NA NA EM, DI, TC, 104.0 885@1400 184 87.0 EM, DI, TC, 112.0 999@1200 228 92.0 EM, DI, TC, 99.0 991@1300 204 89.0 EM, DI, TC,	480@1800	72	65	160.0	A A	Z V		ត
104.0 585@1400 184 87.0 EM, DI, TC, 112.0 599@1200 228 92.0 EM, DI, TC, 99.0 991@1300 204 89.0 EM, DI, TC,	374@1800	7	80	127.0	A A	Ą Z		ဂ်
112.0 999@1200 228 92.0 EM, DI, TC, 99.0 991@1300 204 89.0 EM, DI, TC,	286@2000	u)	55	104.0	885@1400	184		ပ
99.0 991@1300 204 89.0 EM, DI, TC,	303@2000	5	58	112,0	999@1200	228	8	ā
	264@1800	T.	53	99.0	991@1300	204		DI, TC,

Engine Mode ummary Form

CATERPILLAR INC. Manufacturer;

Engine category: Nonroad Over 50 Hp

PA Engine Famy, 6CPXL08.8ESK

Mfr Family Name:

Running Change -1 Process Code:

8.Fuel Rate: 9.Emission Control lbs/hr)@posk torque Device Per SAE J1930	EM,DI,TC,ECM,CA EM,DI,TC,ECM,CA
8.Fuel Rate; (lbs/hr)@peak torq	79
7.Fuel Rate: mm/stroke@peak torque	181 186
8.Torque @ RPM (SEA Gross)	909@1300 909@1300
5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	84 80
4,Fuel Rate: mm/stroke @ peak HP (for diesel only)	130
3.8HP@RPM (SAE Gross)	213@1850 213@1850
2.Engine Model	ទី បី
1.Engine Code	32

CATERPILLAR INC. Manufacturer:

Engine category: Nonroad Over 50 Hp

EPA Engine Famy: 6CPXL08.8ESK

Mfr Family Name:

Running Change - 3 Process Code:

8.Fuel Rate: 9.Emission Control be/hr)@pesk torque Device Per SAE 31930	EM,DI,TC,ECM,CA EM,DI,TC,ECM,CA
	88 117
7,Fuel Rate; mm/stroks@peak torque	186
6.Toque @ RPM (SEA Gross)	926@1400 1230@1400
5.Fuel Rate: (ibs/hr) @ peak HP (for dlesele only)	92 139
4,Fuel Rate: mr/stroke @ peak HP (for diesel only)	171
J.BHP@RPW (SAE Gross)	259@1600 375@2200
2.Engine Madel	8 8
1.Engine Cade	35

Engine Move/ ymmary Form

CATERPILLAR INC. Manufacturer:

Nonroad Over 50 Hp 8CPXL08.8ESK Engine category:

BPA Engine Family.

Mr Family Name:

Running Change - 4 Process Code:

8.Fuel Rate: 9.Emission Control (bs/hr)@peak torque Device Per SAE J1930	EM,DI,TC,ECM,CA
8.Fuel Rate: (lbs/hr)@peak ton	93
7.Fus! Rate: mm/stroke@peak torque (lb	198
6.Torque @ RPM (SEA Gross)	988@1400
5.Fuel Rate: (lbs./hr) @ peak HP (for dlesels only)	108
4.Fuel Rate: mw/stroke @ peak HP (for diesel only)	152
3.BHP@RPM (SAE Gross)	300@2100
2.Engine Model	60
1.Engine Code	37

Engine Moc Summary Form

CATERPILLAR INC. Manufacturer: Engine category: Nonroad Over 50 Hp EPA Engine Famy, 6CPXL08,8ESK

Mfr Family Name:

Running Change - 5 Process Code:

8.Fuel Rate: 9.Emisskon Control bs/hr/@peak torque Device Per SAE J1930	EM,DI,TC,ECM,CA
= 1	109
7,Fuel Rate: mm/strake@peak lorque	232
6.Torque @ RPM (SEA Grass)	1148@1400
5,Fuel Rate: (lbs/hr.) @ peak HP (for diesels only)	125
4.Fual Rate: mm/stroke @ pesk HP (for diesel only)	206
3.BHP@RPM (SAE Gross)	350@1800
2.Engine Model	60
1. Engine Code	*

CATERPILLAR INC. Manufacturer:

Engine category: Nonroad Over 50 Hp
EPA Engine Family: 6CPXL08,8ESK

Mfr Family Name:

Running Change - 6 Process Code:

8.Fuel Rate: 9.Етізsіол Control ibs/hr)@peak torque. Device Per SAE J1930	EM, DI. TC, ECM.
8.Fuel Rate: (lbs/hr)@peak torque	107
7.Fuel Rate: mm/stroke@peak lorque	228
6.Torque @ RPM (SEA Gross)	1151@1400
5,Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	121
4,Fuel Rate: 5,Fuel Rate: mm/stroke @ peak HP (1bs/hr) @ peak HP (for dlesel only) (for dlesels only)	199
3.BHP@RPM (SAE Gross)	350@1800
2.Engine Model	60
1.Engine Code	38

Engine Mod Summary Form

CATERPILLAR INC. Manufacturer:

Engine category: Nonroad Over 50 Hp

EPA Engine Famy, 6CPXL08.8ESK

Mir Family Name:

Running Change - 7 Process Code;

2.Engine Model	3.8HP@RPW (SAE Grass)	4,Fuel Rale: mm/strcke @ peak HP (Icr 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	8,Fuel Rate: 9,Emission Control (Ibs/hr) @peak torque Device Per SAE J1930
228@1	850	132	82	980@1300	195	85	EM,DI, TC, ECM,
228@1850	0	137	85	980@1300	197	06	EM,DI, TC, ECM,

Manufacturer. CATERPILLAR INC.

Engine category. Nonroad Over 50 Hp

SPA Engine Family 6CPXL08.8ESK

Mr Family Name:

Process Code: Running Change - 3

او	K	ď
8.Fuel Rate: 9.Emission Control Ibs/h/i@peak torqus Device Per SAE J1930	EM.DI.TC.ECM,CA	FM DI TO FON CA
8.Fuel Rate: (lbs/hr)@peak lo/que	88	117
7,Fuel Rate: mm/siroke@peak torque	186	747
6.Torque @ RPM (SEA Gross)	926@1400	1230@1400
5.Fuel Rate: {bshrt} @ peak HP (for dissells only)	88	139
4,Fuel Rate: S.Fuel Rate: mm/stroke @ peak HP (bathr) @ peak HP (for dissall only) (for dissalls only)	171	188
J.BHP@RPM (SAE Gras)	259@1600	375@2200
2.Engine Model	ວ	හි
.Engine Code	35	Я
-		

f

Engine Mode Jummary Form

CATERPILLAR INC. Manufacturer:

Engine category: Nonroad Over 50 Hp

EPA Engine Famy, 6CPXL08.8ESK

Mir Family Name

Running Change - 4 Process Cade:

8.Fuel Rate: 3.Emission Control bs/fr/@peak torque Device Per SAE 11930	EM,DI,TC,ECM,CA
르	93
7.Fuel Rate: mm/stroke@peak forque	198
6.Torque @ RPM (SEA Gross)	988@1400
5. Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	108
4 Flue Rate: 5 mm/stroke @ peak HP (lbs/l (for diese) only) (for	152
3.BHP@RPM (SAE Gross)	300@2100
2.Engine Model	ខ
1.Engine Code	37

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

9.Emission Convol Device Per SAE J1930	EM, DI, TO, ECM, CA
8 Fuel Rale: (bs/hr/@peek larque	60)
7.Fuel Rate; mil/strate@peak longue	232
6.Torque @ RPM (SEA Grass)	1148@1460
5,Post Rate: (Ibs/hr) @ peak HP (for diesets only)	52)
*, Fuel Rate: movatoke @ peak HP (for desel only)	206
3.BHPGRPM (SAE Gross)	350@1800
2.Engine Model	ర
1.Engine Code	Ä

Engine Mod

Manufacturer. CATERPILLAR INC.

Engine category: Nonroad Over 50 Hp

EPA Engine Family 6CPXL08.8ESK

Mfr Family Name:

Process Code: Running Change - 6

8.Fuer Rate: 9.Emission Control hr)@peak torque Device Per SAE J1930	EM, DI, TC, ECM.
8.Fuer Rate: (lbs/hr)@peak.torque	107
7.Fuel Rate: mm/stroke@peak torque	228
6. Torque @ RPM (SEA Gross)	1151@1400
5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	121
4.Fuel Rate: mm/stroke @ peak HP (ib (for diasel only) (f	199
3.8HP@RPM (SAE Gross)	350@1800
2.Engine Model	60
1.Engine Code	38

Engine Mude/~.

CATERPILLAR INC. Manufacturer: Engine category: Nonroad Over 50 Hp
EPA Engine Family: 6CPXL08.8ESK Engine category:

Mfr Femily Name:

Running Change - 8 Process Code:

1.Engine Code	38
1.Engine Code 2.Engine Model	60
3.BHP@RPM (SAE Gross)	254@2100
4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	134
5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	95
6.Torque @ RPW (SEA Gross)	782@1400
7.Fuel Rata: mm/stroke@peak torque (lb	167
8.Fuel Rate: (lbs/hr)@peak lorque	79
8.Fuel Rate: 8.Emission Control (bs/hr)@peak torque Device Per SAE J1830	EM, DI, TC, ECM,



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

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A Rublic Service Agency

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

YR 1ST SOLD YR MODEL VLF CLASS TYPE VEH

2007 2007 MY 32K BODY TYPE MODEL WC UNLADEN/G/CGW

2 E 35000 TYPE VEHICLE USE DATE ISSUED CC/ALCO DT FEE RECYD PIC

COMMERCIAL 09/26/08 30 09/26/08 8

LICENSE NUMBER 8N10833

VEHICLE ID NUMBER 3FRXF75E77V515608 STICKER ISSUED

T2944403

PR EXP DATE: 09/30/2008

24-250350 WATER Truck

AMOUNT PAID \$ 1163.00

AMOUNT DUE AMOUNT RECVD

CASH :

CHCK :

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PENHALL CO

92801

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1801 PENHALL WAY

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