

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)
2006	6JDXL06.8101	4.5, 6.8	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Engine Control Module, Turbocharger, Charge Air Cooler, Exhaust-Gas Recirculation (EGR)			Loader, Tractor, Pump, Compressor, Generator Set, Other Industrial Equipment	

The engine models and codes are attached.

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

RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kW-hr)					OPACITY (%)		
			HC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
75 ≤ kW < 130	Tier 2	STD	N/A	N/A	6.6	5.0	0.30	20	15	50
130 ≤ kW < 225	Tier 3	STD	N/A	N/A	4.0	3.5	0.20	20	15	50
225 ≤ kW < 450	Tier 3	STD	N/A	N/A	4.0	3.5	0.20	20	15	50
		FEL	-	-	4.0	-	-	-	-	-
		CERT	-	-	3.4	0.6	0.11	8	1	14

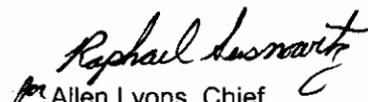
**BE IT FURTHER RESOLVED:** That the family emission limit(s) (FEL) is an emission level declared by the manufacturer for use in any averaging, banking and trading program and in lieu of an emission standard for certification. It serves as the applicable emission standard for determining compliance of 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 21<sup>st</sup> day of December 2005.

  
 Allen Lyons, Chief  
 Mobile Source Operations Division

# Engine Model Summary Form

Manufacturer: **John Deere Power Systems Group of Deere &**  
 Engine category: **Nonroad CI**  
 EPA Engine Family: **6JDXL06.8101**  
 Family Name: **350HAA**  
 Test Code: **New Submission**

*Attachment*  
 U-2-004-0240

1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
6068HF485A	6068H	278.94@2400	126.80@2400	102.74@2400	854.72@1400	170.1@1400	80.47@1400	EM EGR EC
6068HF485B	6068H	199.82@2200	93.30@2200	69.34@2200	688.06@1400	140.4@1400	66.52@1400	EM EGR EC
6068HF485C	6068H	199.82@2200	93.30@2200	69.34@2200	618.00@1400	125.3@1400	59.35@1400	EM EGR EC
6068HF485D	6068H	199.82@2400	89.10@2400	72.23@2400	548.68@1400	109.2@1400	53.22@1400	EM EGR EC
6068HF485E	6068H	193.11@2000	98.00@2000	66.25@2000	618.00@1400	126.2@1400	59.77@1400	EM EGR EC
6068HF485F	6068H	193.11@2000	98.00@2000	66.25@2000	688.06@1400	140.5@1400	66.34@1400	EM EGR EC
6068HF485G	6068H	179.70@2000	91.60@2000	61.91@2000	618.00@1400	125.8@1400	59.59@1400	EM EGR EC
6068HF485H	6068H	185.07@2200	87.40@2200	64.93@2200	618.00@1400	126.5@1400	59.93@1400	EM EGR EC
6068HF485I	6068H	185.07@2200	86.80@2200	64.51@2200	548.68@1400	110.6@1400	52.39@1400	EM EGR EC
6068HF485J	6068H	185.07@2400	83.20@2400	67.40@2400	516.23@1400	101.3@1400	49.34@1400	EM EGR EC
6068HF485S	6068H	225.30@2200	103.90@2200	77.08@2200	688.06@1400	142.8@1400	67.53@1400	EM EGR EC
6068HF485K	6068H	274.91@2400	119.30@2400	96.59@2400	755.90@1400	154.5@1400	75.03@1400	EM EGR EC
6068HF485L	6068H	250.78@2200	115.90@2200	86.05@2200	755.90@1400	153.4@1400	72.45@1400	EM EGR EC
6068HF485M	6068H	242.73@2000	122.40@2000	82.54@2000	755.90@1400	156.9@1400	74.08@1400	EM EGR EC
6068HF485N	6068H	217.25@2000	106.80@2000	72.05@2000	755.90@1400	156.6@1400	73.95@1400	EM EGR EC
6068HF485O	6068H	250.78@2400	108.50@2400	87.86@2400	688.80@1400	141.1@1400	68.55@1400	EM EGR EC
6068HF485P	6068H	217.25@2000	111.00@2000	74.87@2000	688.80@1400	137.5@1400	64.91@1400	EM EGR EC
6068HF485Q	6068H	225.30@2400	97.80@2400	79.24@2400	618.00@1400	126.7@1400	61.73@1400	EM EGR EC
6068HF485R	6068H	225.30@2200	104.00@2200	77.12@2200	755.90@1400	156.1@1400	73.84@1400	EM EGR EC
6068HF485T	6068H	315.15@1800	153.50@1800	109.68@1800				EM EGR EC
6068HT062	6068H	202.50@2100	97.90@2100	69.36@2100	618.00@1400	126.2@1400	59.59@1400	EM EGR EC
6068HRT80A	6068H	166.29@2200	81.90@2200	58.87@2200	556.05@1600	115.9@1600	60.63@1600	EM EGR EC
6068HRT80B	6068H	201.16@2200	97.20@2200	69.89@2200	600.30@1600	124.2@1600	65.04@1600	EM EGR EC
6068HRT81A	6068H	221.27@2200	107.10@2200	76.72@2200	660.03@1600	138.5@1600	72.32@1600	EM EGR EC
6068HRT81B	6068H	186.41@2200	90.90@2200	65.26@2200	623.16@1600	130.2@1600	67.91@1600	EM EGR EC
6068HRT82A	6068H	250.78@2200	120.60@2200	86.42@2200	752.22@1500	158.9@1500	77.39@1500	EM EGR EC
6068HRT82B	6068H	234.68@2200	112.80@2200	80.69@2200	700.59@1600	148@1600	76.95@1600	EM EGR EC
6068HRT82C	6068H	199.82@2200	97.00@2200	69.45@2200	667.41@1600	141.1@1600	73.42@1600	EM EGR EC

*CAC*  
*TC*

# Engine Model Summary Form

Manufacturer: **John Deere Power Systems of Deere and**  
 Engine category: **Nonroad CI**  
 EPA Engine Family: **6JDXL06.8101**  
 Mfr Family Name: **350HAA**  
 F 3 Code: **Running Change**

*Attachment 2 of 3*

*U-R-004-0240*

1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930	
6068HT061	6068H	189.09@2000	94.50@2000	63.76@2000	593.66@1400	121.3@1400	57.26@1400	EM EGR EC,	TC, PDI CAC
<i>Added</i>									

# Engine Model Summary Form

Manufacturer: **John Deere Power Systems of Deere and**  
 Engine category: **Nonroad CI**  
 EPA Engine Family: **6JDXL06.8101**  
 Mfr Family Name: **350HAA**  
 Process Code: **Running Change**

*Attachment 3 of 3*  
*U-R-004-0240*

1.Engine Code	2.Engine Model	3.BHP @ RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke @ peak torque	8.Fuel Rate: (lbs/hr) @ peak torque	9.Emission Control Device Per SAE J1930
6068HDW64	6068H	185.07 @ 2200	87.00 @ 2200	64.53 @ 2200	618.00 @ 1400	124.1 @ 1400	58.62 @ 1400	EM EGR EC
6068HDW65	6068H	171.66 @ 2200	81.20 @ 2200	60.28 @ 2200	540.57 @ 1400	108.8 @ 1400	51.37 @ 1400	EM EGR EC

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*TC, CA*  
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*✓ Added*