

#### DEERE POWER SYSTEMS GROUP OF DEERE & COMPANY

EXECUTIVE ORDER U-R-004-0131 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)
2002	2JDXL06.8049	6.8	Diesel	8000
SPECIAL	FEATURES & EMISSION	CONTROL SYSTEMS	TYPICAL EQUIPMENT	APPLICATION
Direct [	Diesel Injection, Electron Turbocharger, Charge		Pump, Compressor, Generator S	Set, 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	EMISSION		•	Ī	EXHAUST (g/kw-l	nr)		OF	PACITY (%	<b>6</b> )
POWER CLASS	STANDARD CATEGORY		HC	NOx	NMHC+NOx	со	PM	ACCEL	LUG	PEAK
130 ≤ KW < 225	Tier 1	STD	1.3	9.2	N/A	11.4	0.54	20	15	50
		FEL	-	6.4	-	-	-	-	-	-
		CERT	0.2	5.6	-	0.9	0.13	14	3	34

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 July 2002.

Mobile Source Operations Division

### **Engine Model Summary Form**

Manufacturer: Deere Power Systems Group of Deere and

Engine category: Nonroad Cl
EPA Engine Family: 2JDXL06.8049

Mfr Family Name: 350HH

Process Code: New Submission

ATTACHMENT | OF |

1400 CACEM €	68.34@1400	145@1400	755.9@1400	6068HF475C 6068H 274,91@2400 117.9@2400 95.46@2400 755.9@1400 145@1400 68.34@1400 IC CAC EM	117.9@2400	274.91@2400	6068H	6068HF475C
		160.86@1400	843.27@1400 1	96.78@2400	5 274.91@2400 119.70@2400 96.78@2400	265 274.91@2400	6068H	6068HF475B
mm/stroke@peak 8.Fuel Rate: 9.Emission Control torque (lbs/hr)@peak torque Device Per SAE J1930	8.Fuel Kate: (lbs/hr)@peak to	mm/stroke@peak torque	6.Torque @ RPM (SEA Gross)	(lbs/hr) @ peak HP (for diesels only)	mm/stroke @ peak HP (for diesel only)	<u>- 0</u>	2.Engine Mod	1.Engine Code

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# **Engine Model Summary Template**

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# Part Number Summary Template

#### 15/2-190-21-n4AB

Engine Family	Engine Code	Engine Model	Injection Pump	Injector	Turbo Charge	Control Module	After Treatment Smoke Puff Device (Specify) Limiter	Smoke Puff Limiter	Sensor Assemble  Description Part N	ssembl Part !
2JDXL06.8048	6068HF475A	6068H	RE507959	RE507860	RE516963	RE508774			Timing sync	¦R
2JDXL06.8049	6068HF475B	6068H	RE507959	RE507860	RE518624	RE508774			_ Timing sync	! <del>Z</del> P
2JDXL06.8049	6068HH054	6068H	RE507959	RE507860	RE509910	R516571RE5087	7		ECS ECT Fuel	! R
2JDXL06.8049	4045HF475A	4045H	RE507959	RE507860	RE517236	R516650RE5087	7		ECS ECT Fuel	! <b>ሕ</b>
2JDXL06.8049	6068HF475C	6068H	RE507959	RE507860	RE517239	R516469RE5087	7		ECS ECT Fuel	¦R.
2JDXL06.8049	6068HF475D	6068H	RE507959	RE507860	RE517239	R516470RE5087	7		ECS ECT Fuel	유
2JDXL06.8049	4045HF475B	6068H	RE507959	RE507860	RE517236	R516474RE5087	17		ECS ECT Fuel	- ! R
2JDXL06.8049	6068HH055	6068H	RE507959	RE507860	RE509910	R516403RE5087	17		ECS ECT Fuel	: R
2JDXL06.8049	4045HF475C	4045H	RE507959	RE507860	RE517236	R516475RE5087	37		ECS ECT Fuel	} <b>R</b> F
2JDXL06.8049	6068HF475E	6068H	RE507959	RE507860	RE517239	R516471RE5087	37		ECS ECT Fuel	: R