

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)
2012	CHZXL462C40	0.462	Diesel	3000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Mechanical Direct Injection			Pump, Generator Set	

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for non-methane hydrocarbon (NMHC), 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 (%)		
			NMHC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
kW < 8	Tier 4 - Final	STD	N/A	N/A	7.5	8.0	0.60	N/A	N/A	N/A
		CERT	--	--	6.3	4.8	0.19	--	--	--

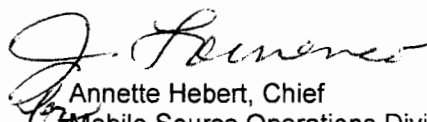
**BE IT FURTHER RESOLVED:** That certification to the standards in 13 CCR 2423(b)(1)(A) -Table 1b listed above has been permitted pursuant to Endnote 2 of the same table.

**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 31<sup>st</sup> day of January 2012.

  
 Annette Hebert, Chief  
 Mobile Source Operations Division

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Engine Model Summary Template

Engine Family	1.Engine Code	2.Engine Model	3.BHP@PPM (SAE Gross)	4.Fuel Rate: min:stroke @ peak HP (br diesel only)	5.Fuel Rate: (lb/Ah) @ peak HP (br diesel only)	6.Torque @ PPM (SEA Gross)	7.Fuel Rate: min:stroke@peak torque	8.Fuel Rate: (lb/Ah)@peak torque	9.Emission Cost Device Per SAE J
CHZXL462C40	N/A	1B40 T/U/V/W	9,8@3600	23,5	4,7	14,3@3600	23,5	4,7	DI / EM
CHZXL462C40	N/A	1B40 T/U/V/W	9,7@3550	23,5	4,7	14,5@3550	23,5	4,7	DI / EM
CHZXL462C40	N/A	1B40 T/U/V/W	9,7@3500	23,5	4,6	14,6@3500	23,5	4,6	DI / EM
CHZXL462C40	N/A	1B40 T/U/V/W	9,6@3450	23,5	4,5	14,7@3450	23,5	4,5	DI / EM
CHZXL462C40	N/A	1B40 T/U/V/W	9,6@3400	23,5	4,5	14,9@3400	23,5	4,5	DI / EM
CHZXL462C40	N/A	1B40 T/U/V/W	9,6@3350	23,5	4,4	15,0@3350	23,5	4,4	DI / EM
CHZXL462C40	N/A	1B40 T/U/V/W	9,5@3300	23,5	4,3	15,2@3300	23,5	4,3	DI / EM
CHZXL462C40	N/A	1B40 T/U/V/W	9,4@3250	23,5	4,3	15,3@3250	23,5	4,3	DI / EM
CHZXL462C40	N/A	1B40 T/U/V/W	9,4@3200	23,5	4,2	15,5@3200	23,5	4,2	DI / EM
CHZXL462C40	N/A	1B40 T/U/V/W	9,3@3150	23,5	4,1	15,6@3150	23,5	4,1	DI / EM
CHZXL462C40	N/A	1B40 T/U/V/W	9,2@3100	23,5	4,1	15,7@3100	23,5	4,1	DI / EM
CHZXL462C40	N/A	1B40 T/U/V/W	9,2@3050	23,5	4,0	15,9@3050	23,5	4,0	DI / EM
CHZXL462C40	N/A	1B40 T/U/V/W	9,1@3000	24	4,0	16,0@3000	24	4,0	DI / EM
CHZXL462C40	N/A	1B40 T/U/V/W	9,0@2950	24	3,9	16,1@2950	24	3,9	DI / EM
CHZXL462C40	N/A	1B40 T/U/V/W	9,0@2900	24	3,9	16,3@2900	24	3,9	DI / EM
CHZXL462C40	N/A	1B40 T/U/V/W	8,9@2850	24	3,8	16,4@2850	24	3,8	DI / EM
CHZXL462C40	N/A	1B40 T/U/V/W	8,8@2800	24	3,7	16,5@2800	24	3,7	DI / EM
CHZXL462C40	N/A	1B40 T/U/V/W	8,7@2750	24	3,7	16,7@2750	24	3,7	DI / EM
CHZXL462C40	N/A	1B40 T/U/V/W	8,6@2700	24	3,6	16,8@2700	24	3,6	DI / EM
CHZXL462C40	N/A	1B40 T/U/V/W	8,5@2650	24	3,5	16,9@2650	24	3,5	DI / EM
CHZXL462C40	N/A	1B40 T/U/V/W	8,4@2600	24	3,5	17,0@2600	24	3,5	DI / EM
CHZXL462C40	N/A	1B40 T/U/V/W	8,3@2550	24	3,4	17,1@2550	24	3,4	DI / EM
CHZXL462C40	N/A	1B40 T/U/V/W	8,1@2500	24	3,3	17,2@2500	24	3,3	DI / EM
CHZXL462C40	N/A	1B40 T/U/V/W	8,0@2450	24	3,3	17,3@2450	24	3,3	DI / EM
CHZXL462C40	N/A	1B40 T/U/V/W	7,9@2400	24	3,2	17,4@2400	24	3,2	DI / EM
CHZXL462C40	N/A	1B40 T/U/V/W	7,8@2350	24	3,1	17,4@2350	24	3,1	DI / EM
CHZXL462C40	N/A	1B40 T/U/V/W	7,6@2300	24	3,1	17,5@2300	24	3,1	DI / EM

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**Engine Model Summary Template**

Engine Family	1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm <sup>3</sup> /stroke @ peak HP (for diesel only)	5.Fuel Rate: (lb./hr) @ peak HP (for diesel only)	6.Torque @ RPM (SAE Gross)	7.Fuel Rate: mm <sup>3</sup> /stroke@peak torque	8.Fuel Rate: (lb./hr)@peak torque	9.Emissions Cost Device Per SAE J
CHZXL462C40	N/A	1B40 T/U/V/W	7,5@2250	24	3,0	17,5@2250	24	3,0	DI / EM
CHZXL462C40	N/A	1B40 T/U/V/W	7,3@2200	24	2,9	17,5@2200	24	2,9	DI / EM
CHZXL462C40	N/A	1B40 T/U/V/W	7,1@2150	24	2,9	17,5@2150	24	2,9	DI / EM
CHZXL462C40	N/A	1B40 T/U/V/W	6,9@2100	24	2,8	17,4@2100	24	2,8	DI / EM
CHZXL462C40	N/A	1B40 T/U/V/W	6,8@2050	24	2,7	17,4@2050	24	2,7	DI / EM
CHZXL462C40	N/A	1B40 T/U/V/W	6,6@2000	24	2,7	17,3@2000	24	2,7	DI / EM