

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)
2011	BDZXL02.3099	2.290	Diesel	8000
	FEATURES & EMISSION O		TYPICAL EQUIPMENT A	PPLICATION
Med Smok	chanical Direct Injection, e Puff Limiter, Exhaust G	Turbocharger, as Recirculation	Crane, Loaders, Tractor, Doze	r, Pump, Compressor

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			E	XHAUST (g/kw-l	ır)		OF	ACITY (%	5)
POWER CLASS	STANDARD CATEGORY		HC	NOx	NMHC+NOx	co	PM	ACCEL	LUG	PEAK
37 ≤ kW < 56	Tier 4 Interim	STD	N/A	N/A	4.7	5.0	0.30	20	15	50
		CERT			4.4	1.0	0.25	8	3	16

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 or April 2011

Annette Hebert, Chief

Mobile Source Operations Division

			Ш	Engine Model	Model Summary Template	Template			170 to 1 -8 - 813 - 5375
Deuts AG	4		P	Stachmont	7624	C			0/20 - 620 - 22 - 0 + 0 2
· •	- \		•		1				100/2017
Nomes of CI	C1			4.Fuel Rate: mm/stroke @ peak	5.Fuel Rate:		7.Fuel Rate:	8.Fuel Rate:	
Engine Family	Engine Family 1. Engine Code 2. Engine Model	2.Engine Model	3.BHP@RPM (SAE Gross)		(lbs/hr) @ peak HP 6.Torque @ RPM mm/stroke@pe (lbs/hr)@peak (for diesels only) (SEA Gross) ak torque torque	6.Torque @ RPM ⁿ (SEA Gross)	nm/stroke@pe ak torque	(lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
BDZXL02.3099	C3C150	TD2009L04	67@2800	46.8	29.1	200@1800	47.2	18.7	DDI, TC, EGR, $\zeta p L$
BDZXL02.3099	C3Cl48,4	TD2009L04	64,9@2600	47.6	26.7	200@1800	47.2	18.7	DDI, TC, EGR
BDZXL02.3099	C3Cl47,2	TD2009L04	63,2@2500	47.9	25.6	200@1800	47.2	18.7	DDI, TC, EGR
BDZXL02.3099	C3Cl46,3	TD2009L04	62@2400	48.1	24.5	200@1800	47.2	18.7	DDI, TC, EGR
BDZXL02.3099	C3CI43,9	TD2009L04	58,8@2200	48.0	22.7	200@1800	47.2	18.7	DDI, TC, EGR
BDZXL02.3099	C3C142	TD2009L04	56.3@2200	44.5	21.7	200@1800	47.2	18.7	DDI, TC, EGR 🗸