EXECUTIVE ORDER U-R-035-0313 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)		
2011	BMVXL03.3AAH	3.3	Diesel	8000		
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION			
Mechanical Direct Injection, Turbocharger			Crane, Loader, Tractor, Dozer, Pump, Compressor, Generator 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	P <b>M</b>	ACCEL	LUG	PEAK
37 ≤ KW < 56	Tier 4 Interim	STD	N/A	N/A	4.7	5.0	0.30	20	15	50
		CERT			4.2	1.2	0.24	6	3	9

**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.

Annette Hebert, Chief

Mobile Source Operations Division

## V1.2EZ -3/07

## **Family Information Form-Template**

Manufacturer:	•	·					
Engine category:							
Cert contact:		U-Q-035-0313					
Gen Comaci.	1.0						
	7 -						
Model Year:     Carry over:	2011 Yes	Applicable Regulations O Part 89					
If yes, list the previous family:	AMVXL03.3AAH	O Part 1039	Vor				
Process Code:     Date EPA Fee Paid:	New Submission	O Part 60 only certified to requirements of Part 1039	Stat				
4. EPA Standard Engine Family:	BMVXL03.3AAH		Sta				
5. Mfr's Family Name:	S4S-DTDPB	(A) D. 100 - 10 100	lok				
6. Engine Cycle:	Diesel						
7. Displacement(s) (CID or Liters)	3.3L						
8. Engine Configuration:	L4	19. Plant Contact:					
Use the following format:V-8 or	I-6	Mr. Eiji Nutaba					
9. Emission Control & Aftertreatment:	Electronic control Lean NOx Engine Modification SCR	, ,					
Check all that apply  Smoke puff limiter Passive DPF Active DPF EGR  ACTIVE DPF EGR		20. Plant Location: 3000 Tana, Chuo-ku, Sagamihara-shi Kanagawa-ken 252-5293 Japan					
If Other Describe:	NOx adsorber	21. ABT Information: Check all that apply					
10. Fuel Type: 11. Fuel System Type:	Diesel Mechanical Direct Injection	In the split family program NMHC+NOx PM NA NOx					
12. Method Of Aspiration:	Single Stage Turbo	On Family Fastacion Limites					
Turbocharger Type	fixed turbo	22. Family Emission Limits: PM					
Aftercooling	None	NOx					
		NMHC + NOx					
		Units:					
13 Useful Life Period:	10 years / 8,000 hours	23. Nonroad Engine Equipment Types:					
14. Deterioration Factor Type		X Crane S Dozer X Generator Set					
A. Gaseous Exhaust:	Additive						
B. Smoke:	Additive	★ Tractor    ★ Compressor    Other					
15. Intended Service Class	NR 4 (3275) 37-56						
If CFF, Select which category:							
16. Projected Sales : FED	:	as thankfron 1111/2011					

Lungling 1/13/2011

18. Sales Area:

**Production Period:** 

17. Estimated

○ Fed ○ Cal ● 50 St

24. Auxiliary Emission Control Devices:

**AECD** 

CA TOTAL

Start

Reduces effectivness of emission control?