California Environmental Protection Agency	CUMMINS ENGINE CO.,	Executive Order: A-021-0609 New Passenger Cars, Light-Duty Trucks and
OB Air Resources Board	INC.	Medium-Duty Vehicles Page 1 of 5

Pursuant to the authority vested in the Air Resources Board by Health and Safety Code (HSC), Division 26, Part 5, Chapter 2; and pursuant to the authority vested in the undersigned by HSC Sections 39515 and 39516 and Executive Order G-14-012;

IT IS ORDERED AND RESOLVED: The following exhaust and evaporative emission control systems produced by the manufacturer are certified as described below. Production vehicles shall be in all material respects the same as those for which certification is granted.

					TEST GROU	PINFOR	MATION				
MOD					CLE CLASS(ES)		FUEL C	ATEGORY	FUEL TYPE		
201	D15 FCEXD06.78VV				MDV4 D			SINGLE FUEL	1	DIESEL	
	USEF	UL LIFE (	miles)		EHICLE EMISSIO	N CATE	GORY	INTERIM / INT	ERMEDIA	TE IN-USE STD	
EXH/ORVR EVAP			P	FTP			SFTP FTP		SFTP		
:	150000		*	LEV	3 ULEV340		*	*		*	
SF	PECIAL	FEATURE		EXHAUST EMISS YSTEMS	SION CONTROL		OBD ST	TATUS	ENGINE	DISPLACEMENT (L)	
1	1 DFI, EGR, EGRC, OC, DFF, SCRC, NH3OC, NOX(2), NH3S, TC, CAC						FULL	*			
*		*					PARTIAL	* .	6.7		
*							RTIAL WITH FINES	ALL MODELS			
				EVAPORATIVE	& REFUELING (	EVAP/OF	RVR) FAMILY	INFORMATION			
E\	VAP / OF	RVR FAM	ILY	EVAPORATI	VE STD CATEGO	DRY	EVAP EMIS		SPECIA	L FEATURES	
		*			*	*			*		
					EMISSION CRE	DIT INF	ORMATION				
		ALLOW	ANCE	FOR TEST GRO	OUP		G CREDIT FO	NMOG CR		OPTIONAL EXH	
BA	SELINE	PZEV	1	AT PZEV	TZEV		EVAP		R	TRUCKS	
* *				*		N		r	N		
				NMC	OG AND FLEET	VERAG	E INFORMA	ΓΙΟΝ			
NMC	OG RAF	G RAF CH4 RAF FTP NMOG/NMHC HCHO		с нсно/ммн	C RATIC	PC+LDT	OX FLEET STD (0-3750 LVW) (g/mi)	LDT (3	NOX FLEET STD 3751 LVW-8500 2) + MDPV (g/mi)		
	*	*		1.00	*			*		*	

See the Attachment for Vehicle Models, Evaporative Family, Engine Displacement, Emission Control Systems, Phase-In Standards, OBD Compliance, Emission Standards and Certification Levels, and Abbreviations. California Environmental Protection Agency

🖉 Air Resources Board

### BE IT FURTHER RESOLVED:

The exhaust and evaporative emission standards and the certification emission levels for the listed vehicles are as listed on the Attachment. Compliance with the 50° Fahrenheit testing requirement may have been met based on the manufacturer's submitted compliance plan in lieu of testing. Any debit in the manufacturer's "NMOG or NMOG+NOx, as applicable, Fleet Average" (PC or LDT or MDPV) or "Vehicle Equivalent Credit" (MDV) compliance plan shall be equalized as required.

### BE IT FURTHER RESOLVED:

For the listed vehicle models, the manufacturer has attested to compliance with Title 13, California Code of Regulations, (13 CCR) Sections 1965 [emission control labels], 1968.2 [on-board diagnostic, full or partial compliance], 2035 et seq. [emission control warranty], 2235 [fuel tank fill pipes and openings] (gasoline and alcohol fueled vehicles only), and "High-Altitude Requirements" and "Inspection and Maintenance Emission Standards" (California 2015 and Subsequent Model Criteria Pollutant Exhaust Emission Standards and Test Procedures and 2017 and Subsequent Model Greenhouse Gas Exhaust Emission Standards and Test Procedures for PC, LDT and MDV).

### BE IT FURTHER RESOLVED:

The test group listed in this Executive Order is certified conditionally on the manufacturer providing data to demonstrate compliance with California's greenhouse gas fleet average emission standard (CA GHG Standard) specified in Title 13, California Code of Regulations, (13 CCR) Section 1961.1 and the incorporated California 2001 through 2014 Model Criteria Pollutant Exhaust Emission Standards and Test Procedures and 2009 through 2016 Model Greenhouse Gas Exhaust Emission Standards and Test Procedures for Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles, amended December 6, 2012 (CA Test Procedures). The manufacturer has elected, under 13 CCR Section 1961.1(a)(1)(A)(ii) and under Section E.2.5.1(ii) of the CA Test Procedures, to demonstrate compliance with the CA GHG Standard by demonstrating compliance with the National greenhouse gas program (National GHG Program). Therefore, the test group listed in this Executive Order is certified conditionally further on the manufacturer complying with the requirements specified in said provisions in 13 CCR, and Sections E.2.5.1(ii) and H.4.5(b) and H.4.5(c) of the CA Test Procedures (among other things, concerning data and information submission, timing, and format as specified by the Executive Officer). Failure to comply with the certification requirements to demonstrate compliance with CA GHG Standard by demonstrating compliance with the National GHG Program under said provisions in 13 CCR and CA Test Procedures may be cause for the Executive Officer to revoke the Executive Order. Vehicles in the revoked Executive Order shall be deemed uncertified and subject to penalties authorized under California law. Notwithstanding the requirement herein, a manufacturer that becomes, after MY2009, a large-volume manufacturer, as defined in 13 CCR Section 1900, is not required to comply with the CA GHG Standard until the beginning of the fourth model-year from becoming a large-volume manufacturer. Additionally, notwithstanding the requirement herein, a small-volume manufacturer, independent low-volume manufacturer, or intermediate volumemanufacturer, as defined in 13 CCR Section 1900, is not required to comply with CA GHG Standard during modelyears (MY) 2012 through 2015.

Vehicles certified under this Executive Order shall conform to all applicable California emission regulations.

### BE IT FURTHER RESOLVED:

The listed vehicle models are conditionally certified in accordance with 13 CCR Section 1968.2(k) (deficiency and fines provisions for certification of malfunction and diagnostic system) because the on-board diagnostic II (OBD) system of the listed vehicle models has been determined to have six deficiencies. The listed vehicle models are approved subject to the manufacturer paying a fine of \$150 per vehicle for the third through sixth deficiencies in the listed test group that is produced and delivered for sale in California.

On a quarterly basis, the manufacturer shall submit to the Air Resources Board reports of the number of vehicles produced and delivered for sale in California and pay the full fine owed for that quarter pursuant to this conditional certification. Payment shall be made payable to the State Treasurer for deposit in the Air Pollution Control Fund no later than thirty (30) days after the end of each calendar quarter during the 2015 model-year production period. Failure to pay the quarterly fine, in full, in the time provided, may be cause for the Executive Officer to rescind this conditional certification, effective from the start of the quarter in question, in which case all vehicles covered under this conditional certification for that quarter and all future quarters would be deemed uncertified and subject to a civil penalty of up to \$5000 per vehicle pursuant to HSC Section 43154.

**O** Air Resources Board

The Bureau of Automotive Repair will be notified by copy of this Executive Order.

Executed at El Monte, California on this  $\underline{24}$  day of July 2014.

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division

California Environmental Protection Agency

FUEL TYPE

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# ATTACHMENT

# EXHAUST AND EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

## EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS (FTP, HWFET, 50°F, 20°F)

CH4: methane; NMOG: non-CH4 organic gas; HC: hydrocarbon; NMHC: non-CH4 HC; CO: carbon monoxide; NOx: oxides of nitrogen; HCHO: formaldehyde; PM: particulate matter; RAF: reactivity adjustment factor; 2DHS/3DHS [g HC/test]: 2/3 days diurnal+hot-soak; RL [g HC/mi]: running loss; ORVR [g HC/gallon dispensed]: on-board refueling vapor recovery; g: gram; mg: milligram; mi: mile; K: 1000 miles; F: degrees Fahrenheit; FTP: federal test procedure; SFTP: supplemental FTP

			1									
				G+NOx 'mi)	C (g/	-	NC (g/i		1	HO /mi)	1	M mi)
			CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD
FTP@50K		*	*	*	*	*	*	*	*	*	*	*
FTP@UL	DIE	SEL-EPA	0.1362	0.340	0.16	6.4	*	*	*	6	0.000	0.06
50°F @4K	< *		*	*	* ·	*	*	*	*	*		
		NMOG+N					Dx (g/mi)			CO (g/mi)		
		FUEL TYPE		CERT		STD			CERT		STD	
HWFET @ 50K		*		*		*						
HWFET @ UL		DIESEL-	EPA 0.091		0.		.340				1	
20°F @ 50K		*							*		*	

#### SFTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS

		561	PEXHA	USIEN	1122104	STANDA	ARDS AI	ND CERTI	FICATION	LEVI	ELS		
				US06	UC (LAS	92)			SC03			COMPOS	ITE
FUEL TY		PE	NMOG+ (g/mi		CO (g/mi)		PM g/mi)	NMOG+N (g/mi)		CO g/mi)		G+NOx g/mi)	CO (g/mi)
AV		CERT			*		-	*		*	-		_
@4K	<b>.</b> .	STD					100	*		*			
@UL *		CERT	*	*			*	*		*		*	*
		STD	*		*		*	*		*		*	*
		BIN										*	
		WHOLE VEH	ICLE EV	APORA	TIVE EM	ISSION	STAND	ARDS AN	DCERTIF	ICATI	ON LEVI	ELS	
	ORATIVE			W	HOLE VE	HICLE	EVAPOR	RATIVE TE	STING			PL (almi) (	2011
	MILY	FUEL TYPE	E 3DHS (g		g/test) @ UL		2DHS (g/test) @		st) @ UL	@ UL		RL (g/mi) @ UL	
			CERT		STD	FEL	CERT	STE		FEL		RT	STD
	*	*	*		*	*	*	*		*		*	*
C	DRVR / FUI	EL ONLY / CA	NISTER	BLEED	EVAPO	RATIVE	EMISSI	ON STAN	DARDS A	ND CI	ERTIFIC	ATION LEV	ELS
						•	FUE	LONLYE	VAP & CA	ANIST	ER BLEE	D	
EVAPORATIVE FAMILY		ORVR (g/gallon) @ UL		FUEL TYPE		3DHS RIG TEST (g/test) @ UL			2DHS RIG TEST (g/test) @ UL		BLEED CANISTER TEST (g/test) @ 4		
		FUEL TYPE	CERT	STD			CERT	STD	CE	RT	STD	CERT	STD
	*	*	*	*	*		*	*	*		*	*	*

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\*: not applicable; #: pounds; UL: useful life; PC: passenger car; LDT: light-duty truck; LDT1: LDT<6000#GVWR,0-3750#LVW; LDT2: LDT<6000#GVWR,3751-5750#LVW; LDT3: LDT 6001-8500#GVWR,3751-5750#ALVW; LDT4: LDT 6001-8500#GVWR,5751-8500#ALVW; MDV: medium-duty vehicle; MDV4: MDV 8501-10000#GVWR; MDV5: MDV 10001-14000#GVWR; MDPV: mediumduty passenger vehicle; ECS: emission control system; CERT: certification; STD: standard; FEL: family emission limit; GVWR: gross vehicle weight rating; LVW: loaded vehicle weight; ALVW: adjusted LVW; LEV: low emission vehicle; ULEV: ultra LEV; SULEV: super ULEV; ZEV: zero-emission vehicle; PZEV: partial ZEV; AT PZEV: advanced technology PZEV; TZEV: transitional ZEV; TWC/OC: 3-way/oxidizing catalyst; ADSTWC: adsorbing TWC; HAC: HC adsorbing catalyst; WU: warm-up catalyst; NAC: NOx adsorption catalyst; SCR-U or SCRC/SCR-N or SCRC-NH3: selective catalytic reduction-urea/ammonia; NH3OC: ammonia oxidation catalyst; CTOX/PTOX: continuous/periodic trap oxidizer; DPF: diesel particulate filter (active); GPF: PM filter for sparkignited engine; HO2S/O2S: heated/oxygen sensor; WR-HO2S or AFS: wide range/linear/heated air-fuel ratio sensor; NOXS: NOX sensor; PMS: PM sensor; RDQS: reductant quality sensor; NH3S: ammonia sensor; EGR: exhaust gas recirculation; EGRC: EGR cooler; AIR/AIRE: secondary air injection (belt driven)/(electric driven); PAIR: pulsed AIR; SFI/MFI: sequential/multiport fuel injection; DFI/IFI: direct/indirect fuel injection; TC/SC: turbo/super charger; CAC: charge air cooler; F/P/\$: full/partial/partial with fines on-board diagnostic; DOR: direct ozone reducing; HCT: hydrocarbon trap; BCAN: bleed carbon canister; prefix 2: parallel; (2) suffix: series; CNG/LNG: compressed/liquefied natural gas; LPG: liquefied petroleum gas; E85-CARB: 85% ethanol+15% CA Phase2 gasoline: E85-EPA: 85% ethanol+15% Tier2 unleaded gasoline; E10-CARB: 10% ethanol+90% CA Phase2 gasoline; E10-EPA: 10% ethanol+90% Tier2 unleaded gasoline; A: automatic transmission; M: manual transmission; SA: semi-automatic transmission; L: lock-up automatic transmission; CV: continuously variable transmission; AM: automated manual transmission: OT: other transmission

# 2015 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD	PZEV TYPE
RAM	2500 4X2	MDV4	6.7	A6,M6	*	1	\$	*
RAM	2500 4X4	MDV4	6.7	A6,M6	*	1	\$	*
RAM	3500 4X2	MDV4	6.7	A6	*	1	\$	*
RAM	3500 4X4	MDV4	6.7	A6	*	1	\$	*