	Californ	ia Eaviroi	unental P	rotection /	Agency	
Ø,	AID	DEC		AEC	804	
	АП	RED	υυπ	CE3	DUP	NDV.

Pursuant to the authority vested in the Air Resources Board by Health and Safety Code Division 26, Part 5, Chapter 2; and pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-02-003;

IT IS ORDERED AND RESOLVED: The engine and emission control systems produced by the manufacturer are certified as described below for use in on-road motor vehicles with a manufacturer's GVWR over 14,000 pounds. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY ENGINE SIZES (L)		FUEL TYPE ¹	STANDARDS & TEST PROCEDURE	INTENDED SERVICE CLASS ²	ECS & SPECIAL FEATURES 3	DIAGNOSTIC '			
2010	ADDXH14.8EED	14.8	DIESEL DIESEL HHDD			ECM, TC, CAC, EGR, OC, PTOX, SCR-U	OBD (P)			
PRIMARY ENGINE'S IDLE EMISSIONS CONTROL 5										
	30g N/A									
ENGINE (ENGINE MODELS / CODES (rated power, in hp)									
14.8	See Attachment for engine models and ratings									
*	*									

• =not applicable; GVWR=gross vehicle weight rating; 13 CCR xyz=Title 13, California Code of Regulations, Section xyz; 40 CFR 86.abc=Title 40, Code of Federal Regulations, Section 86.abc; L=liter, hp=horsepower; kw=kilowatt; hr=hour;

CNG/LNG=compressed/liquefied natural gas; LPG=liquefied petroleum gas; E85=85% ethanol fuel; MF=multi fuel a.k.a. BF=bi fuel; DF=dual fuel; FF=flexible fuel; 2 L/M/H HDD=light/medium/heavy heavy-duty diesel; UB=urban bus; HDO=heavy duty Otto;

Limit in Dut=ingrumeaium/neavy neavy-outy disser; UB=urban bus; RUC=reavy outy toto;
ECS=emission control system; TWC/OC=three-way/oxidizing catalyst; NAC=NOx adsorption catalyst; SCR-U / SCR-N=selective catalytic reduction – urea / – ammonia; WU (prefix) =warm-up catalyst; DPF=diesel particulate filter; PTOX=periodic trap oxidizer; HO25/O2S=heated/oxygen sensor; HAFS/AFS=heated/air-fuel-ratio sensor (a.k.a., unversal or linear oxygen sensor);
TBI=throttle body fuel injection; SF//MFI=sequential/multi pon fuel injection; OGI=direct gasoline injection; GCARB=gaseous carburetor; IDI/DDI=indirect/direct diesel injection; TCSC=turbo/ super charger; CAC=charge air cooler; EGR / EGR-C=exhaust gas recirculation / cooled EGR; PAIR/AIR=pulsed/secondary air injection; SPL=smoke puff limiter; ECM/PCM=engine/powertrain pont/or module; EM=engine modification; 2 (prefix)=parallel; (2) (suffix)=in senso;
ESS=engine shutdown system (per 13 CCR 1956.8(a)(6)(A)(1); 30g=30 g/hr NOx (per 13 CCR 1956.8(a)(6)(C); APS =internal combustion auxiliary power system; ALT=atternative method (per 13 CCR 1956.8(a)(6)(D); Exempt=exempted per 13 CCR 1956.8(a)(6)(D) or for CNG/LNG fuel systems; N/A=not applicable (e.g., Otto engines and vehicles);
EMD=partine modification; 2 (2020.1021)

(2009August06)

EMD=engine manufacturer diagnostic system (13 CCR 1971); OBD(F) / (P) / (\$)=full / partial / partial with fine / on-board diagnostic;

Following are: 1) the FTP exhaust emission standards, or family emission limit(s) as applicable, under 13 CCR 1956.8; 2) the EURO and NTE limits under the applicable California exhaust emission standards and test procedures for heavyduty diesel engines and vehicles (Test Procedures); and 3) the corresponding certification levels, for this engine family. "Diesel" CO, EURO and NTE certification compliance may have been demonstrated by the manufacturer as provided under the applicable Test Procedures in lieu of testing. (For flexible- and dual-fueled engines, the CERT values in brackets [] are those when tested on conventional test fuel. For multi-fueled engines, the STD and CERT values for default operation permitted in 13 CCR 1956.8 are in parentheses.).

in	NMHC		NOx		NMHC+NOx		co		PM		нсно	
g/bhp-hr	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO
STD	0.14	0.14	0.20	0.20	*	*	15.5	15.5	0.01	0.01	*	*
FEL	*	•	*	•	*	*	*	•	*	*	*	*
CERT	0.000	0.000	0.15	0.16	*	*	0.4	0.01	0.003	0.000	*	*
NTE	0.21		0.	.30	•		19.4		0.02		*	

g/bhp-hregrams per brake horsepower-hour; FTP=Federal Test Procedure; EURO=Euro III European Steady-State Cycle, including RMCSET=ram mode cycle supplemental emissions testing; NTE=Not-to-Exceed; STD=standard or emission test cap; FEL=family emission limit; CERT=certification level; NMHC/HC=non-methane/hydrocarbon; NOx=oxides of nitroge CO=carbon monoxide; PM=particulate matter; HCHO=formaldehyde; (Rev.: 2007-02-26)

BE IT FURTHER RESOLVED: Certification to the FEL(s) listed above, as applicable, is subject to the following terms, limitations and conditions. The FEL(s) is the emission level declared by the manufacturer and serves in lieu of an emission standard for certification purposes in any averaging, banking, or trading (ABT) programs. It will be used for determining compliance of any engine in this family and compliance with such ABT programs.

BE IT FURTHER RESOLVED: For the listed engine models the manufacturer has submitted the materials to demonstrate certification compliance with 13 CCR 1965 (emission control labels), 13 CCR 1971.1 (on-board diagnostic, full or partial compliance), and 13 CCR 2035 et seq. (emission control warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

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

Executed at El Monte. California on this

day of February 2010.

Annette Hebert, Chief **Mobile Source Operations Division**

Engine Model mmary Template

Engine Family	1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: 9 (ibs/hr)@peak torque De).Emi vice	ssion Control Per SAE J1930
									_	
ADDXH14.8EED		DD15	455@1800	260	150.5	1550@1240	279	111.6		M, TC, CAC
ADDXH14.8EED		DD15	475@1800	272	157.5	1550@1240	279	111.6	E	GR, DOC,
ADDXH14.8EED	u	DD15	455@ 1800	260	150.5	1650@1240	297	118.7	D	PF, SCR
ADDXH14.8EED	IV	DD15	475@1800	272	157.5	1650@1240	297	118.7	(a	ll ratings)
ADDXH14.8EED	V	DD15_	505@1800	290	168.1	1650@1240	297	118.7		
ADDXH14.8EED	VI	DD15	455@1800	260	150.5	1750@1240	316	126.2		
ADDXH14.8EED	VII	DD15	475@1800	272	157.5	1850@1240	334	133.5		
ADDXH14.8EED	VIII	DD15	500@1800	290	166.4	1850@1240	334	133.5		
ADDXH14.8EED	IX	DD15	530@1800	307	177.6	1850@1240	334	133.5		
ADDXH14.8EED	x	DD15	560@1800	327	189.3	1850@1240	334	133.5		

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