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	SERVICE	ECS & SPECIAL FEATURES 3	DIAGNOSTIC 6			
ILAK					PROCEDURE	CLASS	DDI, TC, CAC, ECM, EGR, OC,				
2012	CCEXH0912	CEXH0912XAR 14.9		Diesel	Diesel HHDD		SCR-U, PTOX	LIVID			
	NS CONTROL			ADDI	TIONAL IDLE EM	IISSIONS CO	NTROL 5				
	30g	N/A									
ENGINE (L)	ENGINE MODELS / CODES (rated power, in hp)									
14.9		See attachment for engine models and ratings									
L=liter, hp	=horsepower; kw=ki	lowatt; hr	=hour;				R 86.abc=Title 40, Code of Federal Regulations =bi fuel; DF=dual fuel; FF=flexible fuel;	s, Section 86.abc;			
L/M/H HDD=light/medium/heavy heavy-duty diesel; UB=urban bus; HDD=heavy duty Otto;											
up catalyst	DPF=diesel particue body fuel injection;	late filter; SFI/MFI=s	PTOX=periodic trap	oxidizer; HO2S/O2S=heated/oxyfuel injection; DGI=direct gasolin	gen sensor; HAFS	S/AFS=heated/a B=gaseous car	ctive catalytic reduction – urea / – ammonia, W air-fuel-ratio sensor (a.k.a., universal or linear or buretor, IDI/DDI=indirect/direct diesel injection; injection; SPL=smoke puff limiter, ECM/PCM=	xygen sensor); TC/SC=turbo/			

control module; EM=engine modification; 2 (prefix)=parallel; (2) (suffix)=in series; AMOX=ammonia exidation catalyst 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-alternative method (per 13 CCR 1956.8(a)(6)(D); Exempt=exempted per 13 CCR 1956.8(a)(6)(B) or for CNG/LNG fuel systems; N/A=not applicable (e.g., Otto engines and vehicles);

EMD=engine manufacturer diagnostic system (13 CCR 1971); OBD=on-board diagnostic system (13 CCR 1971.1);

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 engine

s, the STD and CERT values for default operation permitted in 13 CCR 1956.8 are in parentheses.). 4

in	NMHC		NOx		NMHC+NOx		со		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	*	*	0.35	0.35	*	*	*	*	*	*	*	*
CERT	0.03	0.02	0.18	0.15	*	*	0.00	0.00	0.001	0.002	*	*
NTÉ	0.21		0.52		*		19.4		0.02		*	

g/bhp-hr=grams 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 nitrogen; CO=carbon monoxide; PM=particulate matter; HCHO=formeldehyde; (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: Except in vehicle applications exempted per 13 CCR 1956.8(a)(6)(B), engines in this engine family certified under 13 CCR 1956.8(a)(6)(C) [30 g/hr NOx] and section 35.B.4 of the incorporated "California Exhaust Emissions Standards and Test Procedures for 2004 and Subsequent Model Heavy-Duty Diesel Engines and Vehicles" (HDDE Test Procedures) adopted Dec. 12, 2002, as last amended Sep. 27, 2010, shall be provided with an approved "Certified Clean Idle" label that shall be affixed to the vehicle into which the engine is installed.

BE IT FURTHER RESOLVED: That the manufacturer has elected to include engine models in this engine family which are identified for "emergency vehicle use only". These "emergency vehicle use only" engines are exempt from requirements imposed pursuant to California law and the regulations adopted pursuant thereto for motor vehicle pollution control devices per California Vehicle Code Section 27156.2. The manufacturer must clearly label these engines for "emergency vehicle use only" on the engines' emission control label.

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 (engine manufacturer diagnostic) 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 January 2012.

Annette Hebert, Chief Mobile Source Operations Division

Att auhneut: Page 10f1

Engine Model Summary Template

A-021-0568

12-8-11

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: (lbs/hr)@peak torqu	9.Emission Control eDevice Per SAE J1930
CCEXH0912XAR	3606;FR10967	ISX15 600	592@1888	331	211	2050@1200	388	157	SCRC, PTOX,
CCEXH0912XAR	3606;FR10965	ISX15 600	592@1888	331	211	1850@1200	343	139	SCRC, PTCX,
CCEXH0912XAR	3606;FR10962	ISX15 550	542@1888	304	193	2050@1200	388	157	SCRC, PTOX,
CCEXH0912XAR	3606;FR10964	ISX15 550	542@1888	304	193	1850@1200	342	139	SCRC, PTOX,
CCEXH0912XAR	3606;FR10961	ISX15 525	517@1888	287	183	1850@1200	342	139	SCRC, PTOX,
CCEXH0912XAR	3606;FR10968	ISX15 600RV	571@1977	336	224	1950@1200	365	148	SCRG, PTOX,
CCEXH0912XAR	3606;FR10964	ISX15 550RV	542@1888	304	193	1850@1200	348	141	SCRO, PTOX,
CCEXH0912XAR	3349;FR10823	ISX15 600	583@1888	331	211	2050@1200	397	160	scrd, ptox,
CCEXH0912XAR	3349;FR10821	ISX15 600	583@1888	331	211	1850@1200	348	141	SCRC PTOX,
CCEXH0912XAR	3349;FR10850	ISX15 550	541@1888	304	193	1850@1200	348	141	SCRC, PTOX,
CCEXH0912XAR	3349;FR10819	ISX15 5525	516@1888	287	183	1850@1200	348	141	SCRC, FTOX,
CCEXH0912XAR	3349;FR10840	ISX15 600RV	550@1977	301	201	1950@1200	372	150	SCRC, TOX,
CCEXH0912XAR	3349;FR10821	ISX15 600EV	583@1888	331	211	1850@1200	348	141	SCRC, PTOX,
CCEXH0912XAR	3349;FR10850	ISX15 550RV	541@1888	304	193	1850@1200	348	141	SCRC, PTOX,
CCEXH0912XAR	3349;FR10920	ISX15 550EV	541@1888	304	193	1850@1200	348	141	SCR¢, PTOX,
		٠	1 2200 00 10			ALTERNA 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	etro con anti-	- 0 1 y 1000 at 1000 111 - 1	
Emergency	Vehicle	Engine	Models	Below		the state of the s	and the property of the	The state of the s	
CCEXH0912XAR	3606;FR10966	ISX15 600EV	583@1888	331	211	1850@1200	348	141	SCRC, PTOX,
CCEXH0912XAR	3606;FR10963	ISX15 550EV	542@1888	304	193	1850@1200	348	131	SCRC, PTOX,

SCR-4, Prox, Engeral, DDI, oc, Tc, cAc