California Environmental Protection Agency AIR RESOURCES BOARD

CUMMINS INC.

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	ENGINE FAMILY		FUEL TYPE	STANDARDS & TEST	INTENDED SERVICE	ECS & SPECIAL FEATURES	DIAGNOSTIC 6				
TEAR		512E5 (L)		PROCEDURE	CLASS 1	DDI, TC, CAC, ECM, EGR, OC,	EMD				
2012	CCEXH0912XAR	14.9	Diesel	Diesel	HHDD	SCR-U, PTOX	EMD				
PRIMARY											
EMISSIONS CONTROL											
30g			N/A								
ENGINE (L) ENGINE MODELS / CODES (rated power, in hp)											
14.9	9 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;

12 L/M/H HDD=light/medium/heavy heavy-duty diesel; UB=urban bus; HDO=heavy duty Otto;

Limin HDU=tign/medium/neayy neay-duty diest; UB=urban bus; HDO=heavy duty Otto; BCS=emission control system; TWC/OC=three-way/oxidizing catalyst; NAC=NOx adsorption catalyst; SCR-U / SCR-N=selective catalytic reduction – urea / – ammonia; WU (prefix) =wam-up catalyst; DPF=diesel particulate filter; PTOX=periodic trap oxidizer; HO2s/O2S=heated/oxygen sensor; HAFS/AFS=heated/air-fuel-ratio sensor (a.k.a., universal or linear oxygen sensor); TBI=throttle body fuel injection; SFUMFI=sequential/multi port fuel injection; DGI=direct gasoline injection; GCARB=gaseous carburetor; IDVDDI=indirect/direct diesel injection; TC/SC=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 control module; EM=engine modification; 2 (prefix)=parallel; (2) (suffix)=in series; AMOX=ammonia oxidation 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)(D); of OF CNGCING fuel systems; N/A=not applicable (e.g., Otto engines and vehicles); EMD=panjne manufacturer (anonstic system (13 CCR 1956.8(a)(6)(D); CAR 1951.0000; CAR 1956.8(a)(C); CAR 1956.8(a)(C

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; 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.).

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	*	*	0.35	0.35	*	*	*	*	*	*	*	*
CERT	0.03	0.02	0.18	0.15	*	*	0.00	0.00	0.001	0.002	*	*
NTE	0.	21	0.	52		r	19	9.4	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;

 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 nitroger

 C0=carbon monoxide;
 PM=particulate matter;
 HCHO=formaldehyde;
 (Rev.: 2007-02-2)
(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

Attachment: Page 10f1

Engine Model Summary Template

A-021-0568

12-8-11

			3 BHP@RPM	4.Fuel Rate:	5.Fuel Rate:		7.Fuel Rate:	8 Fuel Rate	9 Emission Control	
Engine Family	1.Engine Code	2.Engine Model	(SAE Gross)	(for diesel only)	(for diesels only)	(SEA Gross)	torque	(lbs/hr)@peak torque	Device 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, PTOX,	
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	SCRC, 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	SCRC, 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, TOX,	
CCEXH0912XAR	3349;FR10840	ISX15 600RV	550@1977	301	201	1950@1200	372	150	SCRC, PTOX,	
CCEXH0912XAR	3349;FR10821	ISX15 600EV	583@1888	331	211	1850@1200	348	141	SCRC, ATOX,	~
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,	
		مربق مرود این میدند در	1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -				and a second second second			
Emergency	Vehicle	Engine	Models	Below		و دو دو و و و و همو بهمو دارد در در مرود و در د	and we want to a super-			~
CCEXH0912XAR	3606;FR10966	ISX15 600EV	583@1888	331	211	1850@1200	348	141	SERC, PTOX,	
CCEXH0912XAR	3606;FR10963	ISX15 550EV	542@1888	304	193	1850@1200	. 348	131	SCRC, PTOX,	

SCR-4, Prox, EmpEGR, DDI, OC, IC, CAC