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 [6]
2011	BCEXH0408BAH	6.7	Diesel	Diesel	MHDD	DDI, TC, CAC, ECM, EGR, OC, PTOX, SCR-U+OC	EMD

PRIMARY ENGINE'S IDLE EMISSIONS CONTROL [5]	ADDITIONAL IDLE EMISSIONS CONTROL [5]
30g	N/A

ENGINE (L)	ENGINE MODELS / CODES (rated power, in hp)
6.7	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;

[1] **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;

[3] **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; **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; **SFI/MFI**=sequential/multi port fuel injection; **DGI**=direct gasoline injection; **GCARB**=gaseous carburetor; **IDI/DDI**=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;

[5] **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);

[6] **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 heavy-duty 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.).[4]

in g/bhp-hr	NMHC		NOx		NMHC+NOx		CO		PM		HCHO	
	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO
STD	0.14	0.14	*	*	*	*	15.5	15.5	0.01	0.01	*	*
FEL	*	*	0.33	0.33	*	*	*	*	*	*	*	*
CERT	0.01	0.00	0.17	0.18	*	*	0.00	0.00	0.000	0.000	*	*
NTE	0.21		0.50		*		19.4		0.02		*	

[4] **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**=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: 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. 1, 2006, shall be provided with an approved "Certified Clean Idle" label that shall be affixed to the vehicle into which the engine is installed.

SUPERSEDED

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) 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 9 day of December 2010.

Annette Hebert, Chief
Mobile Source Operations Division

SUPERSEDED

Date: 11-18-2010

EO#: A-021-0550

Attachment page 1 of 2

Engine Model Summary 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: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
BCEXH0408BAH	3072;FR92508	ISB6.7 360	360@2600	150	132	800@1800	158	96	SCRC, PTOX,
BCEXH0408BAH	3072;FR92507	ISB6.7 340	340@2800	134	127	660@1600	127	68	SCRC, PTOX,
BCEXH0408BAH	3072;FR92506	ISB6.7 325	315@2600	141	124	750@1800	149	91	SCRC, PTOX,
BCEXH0408BAH	3432;FR93187	ISB6.7 360	360@2600	150	132	800@1800	158	96	SCRC, PTOX,
BCEXH0408BAH	3432;FR93186	ISB6.7 340	340@2800	134	127	660@1600	127	68	SCRC, PTOX,
BCEXH0408BAH	3335;FR92505	ISB6.7 300	300@2600	139	122	660@1600	132	71	SCRC, PTOX,
BCEXH0408BAH	3335;FR92503	ISB6.7 280	270@2600	128	113	660@1600	133	72	SCRC, PTOX,
BCEXH0408BAH	3335;FR92500	ISB6.7 260	250@2600	123	108	660@1600	133	72	SCRC, PTOX,
BCEXH0408BAH	3335;FR92498	ISB6.7 250	245@2600	122	107	660@1600	133	72	SCRC, PTOX,
BCEXH0408BAH	3335;FR92496	ISB6.7 240	235@2600	116	102	560@1600	116	63	SCRC, PTOX,
BCEXH0408BAH	3336;FR92687	ISB6.7 300	300@2600	139	122	660@1600	132	71	SCRC, PTOX,
BCEXH0408BAH	3336;FR92504	ISB6.7 280	270@2600	128	113	660@1600	133	72	SCRC, PTOX,
BCEXH0408BAH	3336;FR92501	ISB6.7 260	250@2600	123	108	660@1600	133	72	SCRC, PTOX,
BCEXH0408BAH	3336;FR92499	ISB6.7 250	245@2600	122	107	660@1600	133	72	SCRC, PTOX,
BCEXH0408BAH	3336;FR92497	ISB6.7 240	235@2600	116	102	560@1600	116	63	SCRC, PTOX,
BCEXH0408BAH	3070;FR92495	ISB6.7 220	215@2600	94	83	520@1600	103	55	SCRC, PTOX,
BCEXH0408BAH	3070;FR92494	ISB6.7 200	195@2600	97	85	520@1600	108	58	SCRC, PTOX,
BCEXH0408BAH	3071;FR92686	ISB6.7 220	215@2600	94	83	520@1600	103	55	SCRC, PTOX,
BCEXH0408BAH	3071;FR92685	ISB6.7 200	195@2600	97	85	520@1600	108	58	SCRC, PTOX,
BCEXH0408BAH	3072;FR92508	PX6 360	360@2600	150	132	800@1800	158	96	SCRC, PTOX,
BCEXH0408BAH	3072;FR92507	PX6 340	340@2800	134	127	660@1600	127	68	SCRC, PTOX,
BCEXH0408BAH	3072;FR92506	PX6 325	315@2600	141	124	750@1800	149	91	SCRC, PTOX,
BCEXH0408BAH	3432;FR93187	PX6 360	360@2600	150	132	800@1800	158	96	SCRC, PTOX,
BCEXH0408BAH	3432;FR93186	PX6 340	340@2800	134	127	660@1600	127	68	SCRC, PTOX,
BCEXH0408BAH	3335;FR92505	PX6 300	300@2600	139	122	660@1600	132	71	SCRC, PTOX,
BCEXH0408BAH	3335;FR92503	PX6 280	270@2600	128	113	660@1600	133	72	SCRC, PTOX,
BCEXH0408BAH	3335;FR92500	PX6 260	250@2600	123	108	660@1600	133	72	SCRC, PTOX,
BCEXH0408BAH	3335;FR92498	PX6 250	245@2600	122	107	660@1600	133	72	SCRC, PTOX,

PTOX, SCR-U, ADI, EGR, CAC, TC, ECM, DOC

SUPERSEDED

Date: 11-18-2010 , EO#: A-021-0550

Attachment page 2 of 2

Engine Model Summary 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: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
BCEXH0408BAH	3335;FR92496	PX6 240	235@2600	116	102	560@1600	116	63	~~SCRC, PTOX,~~
BCEXH0408BAH	3336;FR92687	PX6 300	300@2600	139	122	660@1600	132	71	~~SCRC, PTOX,~~
BCEXH0408BAH	3336;FR92504	PX6 280	270@2600	128	113	660@1600	133	72	~~SCRC, PTOX,~~
BCEXH0408BAH	3336;FR92501	PX6 260	250@2600	123	108	660@1600	133	72	~~SCRC, PTOX,~~
BCEXH0408BAH	3336;FR92499	PX6 250	245@2600	122	107	660@1600	133	72	~~SCRC, PTOX,~~
BCEXH0408BAH	3336;FR92497	PX6 240	235@2600	116	102	560@1600	116	63	~~SCRC, PTOX,~~
BCEXH0408BAH	3070;FR92495	PX6 220	215@2600	94	83	520@1600	103	55	~~SCRC, PTOX,~~
BCEXH0408BAH	3070;FR92494	PX6 200	195@2600	97	85	520@1600	108	58	~~SCRC, PTOX,~~
BCEXH0408BAH	3071;FR92686	PX6 220	215@2600	94	83	520@1600	103	55	~~SCRC, PTOX,~~
BCEXH0408BAH	3071;FR92685	PX6 200	195@2600	97	85	520@1600	108	58	~~SCRC, PTOX~~

PTOX, SCR-U, DDI, EGR, CAC, TC, ECM, DOC

SUPERSEDED