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]
2014	EVPTH10.8G01	10.8	Diesel	Diesel	HHDD	DDI, TC, CAC, ECM, EGR, DOC, PTOX, SCR-U, AMOX	OBD ($)

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

ENGINE (L)	ENGINE MODELS / CODES (rated power, in hp)
10.8	See attachments 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; **AMOX** = ammonia oxidation catalyst; **DOC** = Diesel Oxidation Catalyst

[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 (F/P/$)** = full/partial/partial with fine 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 SET 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, SET 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	SET	FTP	SET	FTP	SET	FTP	SET	FTP	SET	FTP	SET
STD	0.14	0.14	0.20	0.20	*	*	15.5	15.5	0.01	0.01	*	*
FEL	*	*	*	*	*	*	*	*	*	*	*	*
CERT	0.01	0.02	0.06	0.06	*	*	0.3	0.003	0.002	0.01	*	*
NTE	0.21		0.30		*		19.4		0.02		*	

[4] **g/bhp-hr**=grams per brake horsepower-hour; **FTP**=Federal Test Procedure; **SET**=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;

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).

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" adopted Dec. 12, 2002, as last amended April 18, 2013, 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: The listed engine models are conditionally certified in accordance with 13 CCR Section 1971.1(k) (deficiency and fines provisions for certification of malfunction and diagnostic system) because the heavy-duty on-board diagnostic (HD OBD) system of the listed engine models has been determined to have ten deficiencies. The listed engine models are approved subject to the manufacturer paying a fine of $325 per engine for the third through tenth deficiencies in the listed engine family 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 engines 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 2014 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 engines 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 engine pursuant to HSC Section 43154.

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 24th day of December 2013.

for D Nguyen

Erik White, Chief
Mobile Source Operations Division

Engine Model Summary Template

ATTACHMENT 1 OF 2

A-242-0073
12/23/13

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
EVPTH10.8G01	50 State	D11J - 405	405 @ 1900	237.3	150.6	1593 @ 1050	297.2	104.2	TC, CAC, EGR, DDI, ECM, DOC, PTOX, SCR, AMOX
EVPTH10.8G01	50 State	D11J - 385	385 @ 1700	240.0	136.2	1513 @ 1050	279.2	97.9	TC, CAC, EGR, DDI, ECM, DOC, PTOX, SCR, AMOX
EVPTH10.8G01	50 State	D11J - 365	365 @ 1700	220.1	124.9	1393 @ 1000	257.0	85.8	TC, CAC, EGR, DDI, ECM, DOC, PTOX, SCR, AMOX
EVPTH10.8G01	50 State	D11J - 355	355 @ 1700	217.7	123.6	1265 @ 1000	231.3	77.2	TC, CAC, EGR, DDI, ECM, DOC, PTOX, SCR, AMOX
EVPTH10.8G01	50 State	MP7 - 405SE	405 @ 1900	237.3	150.6	1593 @ 1050	297.2	104.2	TC, CAC, EGR, DDI, ECM, DOC, PTOX, SCR, AMOX
EVPTH10.8G01	50 State	MP7 - 355E	355 @ 1800	210.5	126.5	1405 @ 1100	257.0	94.4	TC, CAC, EGR, DDI, ECM, DOC, PTOX, SCR, AMOX
EVPTH10.8G01	50 State	MP7 - 325E	325 @ 1800	195.0	117.2	1317 @ 1100	239.0	87.8	TC, CAC, EGR, DDI, ECM, DOC, PTOX, SCR, AMOX
EVPTH10.8G01	50 State	MP7 - 395C	395 @ 1500	272.0	136.3	1602 @ 1100	297.4	109.2	TC, CAC, EGR, DDI, ECM, DOC, PTOX, SCR, AMOX
EVPTH10.8G01	50 State	MP7 - 365C	365 @ 1450	255.5	123.7	1496 @ 1100	276.0	101.4	TC, CAC, EGR, DDI, ECM, DOC, PTOX, SCR, AMOX
EVPTH10.8G01	50 State	MP7 - 345C	345 @ 1450	241.1	116.7	1404 @ 1100	257.2	94.5	TC, CAC, EGR, DDI, ECM, DOC, PTOX, SCR, AMOX
EVPTH10.8G01	50 State	MP7 - 405M	405 @ 1900	237.7	150.8	1535 @ 1050	282.3	99.0	TC, CAC, EGR, DDI, ECM, DOC, PTOX, SCR, AMOX
EVPTH10.8G01	50 State	MP7 - 365M	365 @ 1900	211.1	133.9	1385 @ 1100	252.8	92.8	TC, CAC, EGR, DDI, ECM, DOC, PTOX, SCR, AMOX
EVPTH10.8G01	50 State	MP7 - 325M	325 @ 1900	186.2	118.1	1244 @ 1100	225.3	82.8	TC, CAC, EGR, DDI, ECM, DOC, PTOX, SCR, AMOX

Engine Model Summary Template

ATTACHMENT 2 OF 2

A-242-0073
12/23/13

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
EVPTH10.8G01	50 State	MP7 - 345A	345 @ 1500	232.6	116.5	1270 @ 1100	230.0	84.5	TC, CAC, EGR, DDI, ECM, DOC, PTOX, SCR, AMOX
EVPTH10.8G01	50 State	MP7 - 345R	345 @ 1700	203.1	115.3	1305 @ 1100	230.0	84.5	TC, CAC, EGR, DDI, ECM, DOC, PTOX, SCR, AMOX