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 FAM	IILY ·	ENGINE	FUEL TYPE 1	STANDARDS & TEST	INTENDED SERVICE	ECS & SPECIAL FEATURES 3	DIAGNOSTIC 6
TEAR			SIZES (L)		PROCEDURE	CLASS	DDI, TC, CAC, ECM, EGR, OC,	EMD
2009	9CEXH0408	BAC	6.7	Diesel	Diesel	MHDD	PTOX	LIVID
	PENGINE'S IDLE			ADI	DITIONAL IDLE EN	IISSIONS CO	NTROL 5	
	30g				N	/A		
ENGINE (L)			ENGINE MOI	DELS / CODES (ra	ted power, in	hp)	
6.7				See attachme	ent for engine m	odels and ra	atings ,	
+				,	*			
•					*			·
*					*			
L=liter; hp CNG/LI LIM/H i ECS=e up catalyst TBI=throttle super char control mod ESS=e	i=horsepower, kw=k NG=compressed/liqu HDD=light/medium/h mission control syste ; DPF=diesel partic, e body fuel injection; ger; CAC=charge aid dule; EM=engine my noine shutdown syste	ilowatt; hi lefied natu eavy heav en; TWC/ late fitter; SFUMFI= r cooler; I odification; em (per 1;	r=hour; rral gas; LPG=liquef ry-duty diesel; UB=u OC=three-way/oxidiz PTOX=periodic tra- resequential/multi por GR / EGR-C=exhau 2 (prefix)=parallel; 3 CCR 1956.8(a)(6)(3)	ied petroleum gas; E85=85% e rban bus; HDO=heavy duty Ot ting catalyst; NAC=NOx adsory oxidizer; HO25/O25=heated/ fuel injection; DGI=direct gas ust gas recirculation / cooled EC (2) (suffix)=in series; A)(1); 30g=30 g/hr NOx (per 13	thanol fuel; MF=mut to; to; to; to; to; to; to; to; to; to	i fuel a.k.a. BF I / SCR-N=seie S/AFS=heated/ B=gaseous cai d/secondary air); APS =intern	R 86.abc=Title 40. Code of Federal Regulation: =bi fuel; DF=dual fuel; FF=flexible fuel; ctive catalytic reduction – urea / – ammonia; W air-fuel-ratio sensor (a.k.a., universal or linear or buretor; DI/DDI=indirect/direct diesel injection injection; SPL=smoke puff limiter; ECM/PCM/ al combustion auxiliary power system; ALT=al a (e.g., Otto engines and vehicles);	/U (prefix) =warm- xygen sensor); ; TC/SC≖turbo/ =engine/powertrain

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 ponventional test fuel. For multi-fueled engines, the STD and CERT values for default operation permitted in 13 CCR 1956.8 are in parentheses.).

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

in	NM	HC	N	Ox	HMM	C+NOx	C	0	P	М	н	CHO
g/bhp-hr	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	*	*	1.78	1.78	1.8	1.8	• .	*	*	*	•	*
CERT	0.00	0.00	1.64	1.78	1.6	1.8	0.02	0.00	0.001	0.000	*	*
NTE	0.	21	2.	22	2	2.2	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=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.



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BE IT FURTHER RESOLVED: The listed engine models have been certified to the split engine family standards under 13 CCR 1956.8(b) [diesel engines] or 13 CCR 1956.8(d) [Otto engines] and the incorporated 40 CFR 86.007-15(m)(9).

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.

This Executive Order hereby supersedes Executive Order A-021-0503 dated February 3, 2009.

Executed at El Monte, California on this

day of May 2009.

Annette Hebert, Chief Mobile Source Operations Division

	1 Findine Gade	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	8.Fuel Rate: 9.Emission Control (lbs/hr)@peak torqueDevice Per SAE J1930
	1388:FR91662	ISB 350/PX6	350@2522	156	133	750@1800	151	36	PTOX, PCM,
ACE OF TOTAL STAD	1388:FR91661	ISB 340/PX6	340@2743	149	138	660@1600	133	72	PYOX, PCM,
SOF A BOYOUBBAC	1388:FR91660	(SB 325/PX6	325@2500	.149	126	750@1800	152	92	РТОХ, РОМ,
ACIO NOTORINA	0279;FR91659	1SB 300/PX6	300@2564	138	119	620@1600	126	89	PTOX, PCM,
90074 IDAMSBAC	0279;FR91658	ISB 280/PX6	280@2500	132	11	660@1600	133	72	PTOX, PCM,
HOMESHOWOGBAC	0279;FR91657	ISB 260/PX6	260@2500	123	104	620@1600	126	89	PTOX PCM,
SCENERO BESAC	0279:FR91666	ISB 240/PX6	240@2500	115	26	620@1600	126	89	PTOX, PCM,
* The stable	0914:FR92012	ISB 280/PX6	280@2500	132	111	660@1600	133	. 72	PTOX PCM,
. Andersone in the second of t	0914;FR92011	ISB 260/PX6	260@2500	123	104	620@1600	126	89	PTOX, PCM,
	0914;FR92167	ISB 240/PX6	240@2500	115	26	620@1600	126		РТОХ, РОМ,
	0914:FR92021	ISB 240/PX6	240@2500	115	26	540@1600	113	61	PTÓX, PCM,
A STATE BADAC	0279;FR92020	ISB 240/PX6	240@2500	115	46	560@1600	113	61	PTOX, PCM,
38.30 (13.68.05.BAC)	0279:FR91656	(SB 220/PX6	220@2500	107	06	520@1600	106	22	TOX, PCM,
OVERSON TO SERVE	0279;FR91655	ISB 200/PX6	200@2400	103	83	520@1600	106	27	/PTOX, PCM,
	=9Xd	(PX6= PACCAR ModeL)	nodel						
	,		•		-				}

DNI, TC, CAC, ECM, ECM,