

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 EAR	AII V	ENGINE	FUEL TYPE 1	STANDARDS	INTENDED SERVICE	ECS & SPECIAL FEATURES 3	DIAGNOSTIC 6
YEAR	ENGINE FAM	MILY	SIZES (L)		& TEST PROCEDURE	CLASS	DDI, TC, CAC, ECM, EGR, OC.	
2009	9CEXH0408	BAH	6.7	Diesel	Diesel	MHDD	PTOX, SCR	EMD
	Y ENGINE'S IDLE ONS CONTROL			ADDI	TIONAL IDLE EN	IISSIONS CO	NTROL 5	
	30g				N	/A		
ENGINE ((L)			ENGINE MODE	LS / CODES (ra	ted power, in	hp)	
6.7				See attachmen	t for engine m	odels and ra	atings	
*					*			
*					*			
*					*			
L=liter; hp CNG/LI L/M/H I ECS=er up catalyst;	e-horsepower; kw=k NG=compressed/liqu HDD=light/medium/h mission control syste ; DPF=diesel particle e body fuel injection;	cilowatt; he uefied nature eavy heavem; TWC/ ulate filter; SFI/MFI=	r=hour; aral gas; LPG=liquef ny-duty diesel; UB=u OC=three-way/oxidiz PTOX=periodic trap esequential/multi por	ied petroleum gas; E85=85% eth rban bus; HDO=heavy duty Otto; zing catalyst; NAC=NOx adsorptio oxidizer, HO2S/O2S=heated/ox; t fuel injection; DGI=direct gasolir	anol fuel; MF=multi on catalyst; SCR-L ygen sensor; HAF ne injection; GCAR	ti fuel a.k.a. BF J / SCR-N=selec S/AFS=heated/ tB=gaseous car	R 85.abc=Title 40, Code of Federal Regulations =bi fuel; DF=dual fuel; FF=flexible fuel; ctive catalytic reduction – urea / – ammonia; W air-fuel-ratio sensor (a.k.a., universal or linear o buretor, IDI/DDI=indirect/direct diesel injection;	/U (prefix) =warm- xygen sensor); ; TC/SC=turbo/

TBI=trirottle body fuel injection; SPI/MFFsequentialmunt port rule injection; DGF-circled gasoline injection; GCARB-gaseous carburetor; IDI/DDI=indirect/direct diesel injection; TC/SC-turbo/ super chargee; 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 senies; 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; 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 engines, the STD and CERT values for default operation permitted in 13 CCR 1956.8 are in parentheses.).

in	NM	IHC	N	Ox	NMH	C+NOx	0	0	Р	M	Н	СНО
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	*	*	0.40	0.40	0.40	0.40	*	*	*	*	*	*
CERT	0.00	0.00	0.17	0.18	0.17	0.18	0.00	0.00	0.000	0.000	*	*
NTE	0.	21	0.	60	0	60	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; 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 nitroge CO=carbon monoxide; PM=particulate matter; HCHO=formaldehyde; (Rev.: 2007-02-)

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.

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.

day of December 2009. Executed at El Monte, California on this

Annette Hebert, Chief
Mebile Source Operations Division

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Engine Model Summary Template

E 0#: A-021-0517 Vate: 12/06/2004

Engine Family	Engine Family 1.Engine Code 2.Engine Model	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 dlesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: 9.Emission Control (Ibs/hr)@peak torqueDevice Per SAE J1930	9.Emission Control Device Per SAE J193	ontrol J1930
9CEXH0408BAH	3072;FR92508	ISB6.7 360	360@2600	150	132	800@1800	158	96	SCRC, PTOX	TO%,
9СЕХН0408ВАН	3072;FR92507	ISB6.7 340	340@2800	134	127	660@1600	127	68	SCRC, PTOX	TQ,
9СЕХН0408ВАН	3072;FR92506	ISB6.7 325	315@2600	141	124	750@1800	149	91	SCRC, P	РТ6х,
9CEXH0408BAH	3432;FR93187	ISB6.7 360	360@2600	150	132	800@1800	158	96	SCRC, P	PTOX,
9СЕХН0408ВАН	3432;FR93186	ISB6.7 340	340@2800	134	127	660@1600	127	68	SCRC, PTOX	Tox,
9СЕХН0408ВАН	3335;FR92505	ISB6.7 300	300@2600	139	122	660@1600	132	71	SCRC, P	РТОХ,
9СЕХН0408ВАН	3335;FR92503	ISB6.7 280	270@2600	128	113	660@1600	133	72	SCRC, P	ртох,
9СЕХН0408ВАН	3335;FR92500	ISB6.7 260	250@2600	123	108	660@1600	133	72	SCRC, P	РТОХ,
9CEXH0408BAH	3335;FR92498	ISB6.7 250	245@2600	122	107	660@1600	133	72	SCRd, P	тох,
9СЕХН0408ВАН	3335;FR92496	ISB6.7 240	235@2600	116	102	560@1600	116	63	SCRC P	тох,
9СЕХН0408ВАН	3336;FR92687	ISB6.7 300	300@2600	139	122	660@1600	132	71	SCRC/P-	РТОХ,
9СЕХН0408ВАН	3336;FR92504	ISB6.7 280	270@2600	128	113	660@1600	133	72	SCRC P	PTOX,
9СЕХН0408ВАН	3336;FR92501	ISB6.7 260	250@2600	123	108	660@1600	. 133	72	SCRd,PT	PTOX,
9СЕХН0408ВАН	3336;FR92499	ISB6.7 250	245@2600	122	107	660@1600	133	72	SCRC, PT	PTOX,
9СЕХН0408ВАН	3336;FR92497	ISB6.7 240	235@2600	116	102	560@1600	116	63	SCRC, PT	РТОХ,
9СЕХН0408ВАН	3073;FR92502	ISB6.7 280	270@2600	128	113	660@1600	133	72	sokc, PT	тох,
9СЕХН0408ВАН	3070;FR92495	ISB6.7 220	215@2600	94	83	520@1600	103	55	scrc, rtox	ox,
9СЕХН0408ВАН	3070;FR92494	ISB6.7 200	195@2600	26	85	520@1600	108	58	ACRC, P	, 'X0
9CEXH0408BAH	3071;FR92686	ISB6.7 220	215@2600	94	83	520@1600	103	55	SCRC, PTOX	ox,

DOITC, CAC, ECY) EGR, OC, PTOX

SCRC, PTOX

108

520@1600

85

97

195@2600

ISB6.7 200

3071;FR92685

9CEXH0408BAH

22 58 SC