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

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	STANDARDS & TEST	INTENDED SERVICE	ECS & SPECIAL FEATURES JULING EMISSIONS
2008	8CEXH0912XAK	14.9	Diesel	PROCEDURE	CLASS HHDD	DDI, TC, CAC, ECM, EGR, OC, CONTROL 5
14.9	5)		ENGINE MODEL	S / CODES (rate	d power, in h	30g
=not applie	cable; GVWR=gross vehicle w	reight rating: 13 CC	See attachment (or engine mod	sels and rat	ings

=not applicable; GVWR=gross vehicle weight rating; 13 CCR xyx=Title 13, California Code of Regulations, Section xyz; 40 CFR 86.abc=Title 40, Code of Federal Regulations, Section 86.abc;

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

ECS-emission control system; TWC/OC=three-way/oxidizing catalyst; NAC=NOx adsorption catalyst; SCR-U / SCR-N=selective catalytic reduction — trea / — ammonia; WU (prefix) =warm-troitie body fuel injection; SFIMF|=sequential/multi port fuel injection; DGI=direct gasoline injection; GRAB=gasseous carburetor; ID/DDI=indirect/direct diseal injection; TC/SC=turbo/control module; EM=engine modification; 2 (prefix)=parallel; (2) (suffix)=in sensor; PAR/AIR=pulsed/secondary air injection; SPL=smoke pufil limiter; ECM/PCM=engine/powertrain

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); ALT=allemative 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);

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 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

in [NMHC		NOx		NMH	NMHC+NOx		00	γ			
g/bhp-hr	FTP	EURO	FTP	EURO	FTP			CO	'	PM	H	CHO
STD	0.14	0.14		LUKU		EURO	FTP	EURO	FTP	EURO	FTP	EURO
FEL	*	*	1.35	14.25	* *	*	15.5	15.5	0.01	0.01	+	
CERT	0.01	0.000		1.35	1.3	1.3	* *	*	*	*	*	-
NTE	0.		1.12	0.89	1.1	0.9	0.3	0.00	0.01	0.002	*	-
				02		2.0	1	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 lesting; 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: 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).

BE IT FURTHER RESOLVED: The listed engine models are conditionally certified pending submission of additional information to justify the auxiliary emission control device (AECD) used for engine protection. The manufacturer must demonstrate that the use of the AECD is the minimum strategy necessary for engine protection. The manufacturer has until March 31, 2008 to resolve concerns on this conditional certification. This Executive Order is effective through March 31, 2008; engines produced after the aforementioned effective date are deemed uncertified

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.

/ 8 坐__ day of January 2008. Executed at El Monte, California on this ____

Mobile Source Operations Division

Engine Model Summary Template

Engine Family	1.Engine Code	2.Engine Model	3.BHP@RPM (SAË Gro ss)	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	_	le: 9.E torqueDavio	8.Fuel Rate: 9.Emission Control (bs/ht)@peak torqueDevice Per SAE J1930	٥
8CEXH0912XAK	1437;FR10647	ISX 435ST	435@1800	257	156	1750@1200	349	141	B	PTOX PCM.	
8CEXH0912XAK	1437;FR10667	ISX 435ST	435@1800	257	156	1650@1200	333	135	77	PTOX, POM.	
8CEXH0912XAK	1437;FR10648	ISX 435ST	435@1800	257	156	1750@1200	349	141	9	PTOX PCM.	
8CEXH0912XAK	1437;FR10664	ISX 435	435@1800	257	156	1650@1200	333	135	FCM	PTOX, PCM.	
8CEXH0912XAK	1437;FR10665	ISX 435	435@1800	257	156	1550@1200	311	126	1		
8CEXH0912XAK	1437;FR10649	ISX 425ST	425@1800	252	153	1750@1200	349	141		PTOX PCM.	April and the second se
3CEXH0912XAK	1437;FR10668	ISX 425ST	425@1800	252	153	1650@1200	333	135	T		* Harandara and American
8CEXH0912XAK	1437;FR10650	ISX 425ST	425@1800	252	153	1750@1200	349	141			and in the second secon
8CEXH0912XAK	1437;FR10651	ISX 425	425@1800	252	153	1650@1200	333	135	٤	_ 3	
8CEXH0912XAK	1437;FR10653	ISX 400ST	408@1800	245	149	1750@1200	349	141	98	PTOX PCM	
8CEXH0912XAK	1437;FR10654	ISX 400ST	408@1800	245	149	1650@1200	333	135	1.	: :	-
8CEXH0912XAK	1437;FR10652	ISX 400ST	408@1800	245	149	17 50 @1200	349	141	N. S.	PTOX. PCM	77
3CEXH0912XAK	1437;FR10655	ISX 400ST	408@1800	245	149	1650@1200	333	135		PTOK, PCM.	7/2
8CEXH0912XAK	1437;FR10656	ISX 400	425@1800	252	153	145 0@ 1200	284	116	Ġ	PTOX PCM	< <u>C</u>
8CEXH0912XAK	1437;FR10658	ISX 385ST	408@1800	245	149	1550@1200	311	126		وجسلت	(~
8CEXH0912XAK	1437;FR10657	ISX 385ST	408@1800	245	149	1550@1200	311	126	Td		LG
3CEXH0912XAK	1437;FR10646	ISX 435V	425@1800	252	153	1450@1200	284	116			~(
8CEXH0912XAK	2732;FR10647	ISX 435ST	435@1800	257	156	1750@1200	349	141			
3CEXH0912XAK	2732;FR10667	ISX 435ST	435@1800	257	156	1650@1200	333	135	А		**-Charlest Information
	2732;FR10664	ISX 435	435@1800	257	156	1650@1200	333	135	Ь	PTOX, PCM,	and and the same of the same o
	2732;FR10665	ISX 435	435@1800	257	156	1550@1200	311	126	d	PITOX, PCM,	and the same of th
ĺ	2732;FR10649	ISX 425ST	425@1800	252	153	1750@1200	349	141	ā	PTOX, PCM.	
ì	2732;FR10668	ISX 425ST	425@1800	252	153	1650@1200	333	135	P	PTOX, PCM.	A
1	2732;FR10651	ISX 425	425@1800	252	153	1650@1200	333	135	Fd	PTOX. PCM	-0
	2732;FR10653	ISX 400ST	408@1800	245	149	1750@1200	349	141	Ld	PTOX. PCM)
1	2732;FR10654	ISX 400ST	408@1800	245	149	1650@1200	333	135	PI	PTOX, PCM.	
	2732;FR10656	ISX 400	425@1800	252	153	1450@1200	284	116	Ha	PTOX, PCM.	4
JOEXH09 IZXAK	2732,FR10658	ISX 385ST	408@1800	245	149	1550@1200	311	126	PT	PTÓX REM.	2.
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	1	W10	Heratoman		1	-		l	
8.Fuel Rate: 9.Emission Control (Ibs/hr)@peak torqueDevice Per SAE .11930	MAC XOTAL	DTOX DOM	LICY, TCIM,	PTQX/PCM,	PTOX DOM	OTO POSS	FIYA. RUM.	PTAX DAM	,
	116	130		130	130	124	1.7	113	
7.Fuel Rate: mm/stroke@peak torque	284	344		322	322	300	200	278	
6.Torque @ RPM (SEA Gross)	1450@1200	1750@1200		1650@1200	1650@1200	1550@1200		1450@1200	
5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	153	155		CCI	155	155		155	are had made a describer or or or or other describer or or or other describer or or other describer or or other describer or ot
4.Fuel Rate: 5.Fuel Rate: mmxstroke @ peak HP (for diesel only) (for diesels only)	252	255	256	667	255	255		255	
	425@1800	450@1800	450@180 0	2000	450@1800	450@1800	The second secon	450@1800	
2. Engine Mode	ISX 435V	ISX 450ST	1SX 450ST	ł	ISX 450	ISX 450		ISX 450	
1.Engine Code	2732;FR10646	2732;FR10690	2732:FR10691		2732;FR10692	2732;FR10693	1400.1	2/32,FK10594	
Engine Family 1.Engine Code 2.Engine Model (SAE Gross)	80EXH0912XAK 2732;FR10646 (SX 435V	SCEXH0912XAK 2732;FR10690	8CEXH0912XAK 2732:FR10691	The state of the second constitution of the second	8CEXH0912XAK 2732;FR10692	8CEXH0912XAK 2732,FR10693	SCHVIDOLOVAV CACAGITICACO		

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ATTACHMENT

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