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 FAMILY	ENGINE	FUEL TYPE	STANDARDS & TEST	INTENDED SERVICE	ECS & SPECIAL FEATURES 3	IDLING EMISSIONS
YEAR		\$IZES (L)		PROCEDURE	CLASS 2	DDI, TC, CAC, ECM, EGR, OC,	CONTROL 5
2008	8DDXH14.8EEC	14.8	Diesel	Diesel	HHDD	РТОХ	ESS
ENGINE	L)		ENGINE MODEL	S/CODES (rate	d power, in h	p)	
14.8			See attachment	for engine mo	els and rati	ngs	
*			,	*			
*				*			
*				*			
L=iiter; hp 1 CNG/Li 2 L/M/H i 3 ECS=e up catalyst TBi=throttl super char control mod 5 ESS=e	=horsepower; kw=kilowatt; hi NG=compressed/liquefied natu HDD=light/medium/heavy heav mission control system; TWC/, ; DPF=diesel particulate filter; per: cAC=charge air cooler; E dule; EM=engine modification; gine shuldown system (per 13 56.8(a)(6)(B) or for CNG/LNG	r=hour; ral gas; LPG=liquef y-duly diesel; UB=u OC=three-way/oxidiz PTOX=periodic trap sequential/multi port equential/multi port 2 (prefix)=parallel; 3 CCR 1956.8(a)(6)(4)	ed petroleum gas; E85=85% ethar rban bus; HDO=heavy duty Otto; eing catalyst; NAC=NOx adsorption oxidizer; HO2S/O2S=heated/oxyg fuel injection; DGI=direct gasoline st gas recirculation / coole EGR; (2) (sufftx)=in series;	nol fuel; MF=multi (catalyst; SCR-U / en sensor; HAFS/ injection; GCARB PAIR/AIR=pulsed/ R 1956.8(a)(6)(C);	uel a.k.a. BF=b SCR-N=selecti AFS=heated/air =gaseous carbu secondary air inj	86.abc=Title 40, Code of Federal Regulations, S of fuel; DF=dual fuel; FF=flexible fuel; ve catalytic reduction — urea / — ammonia; WU (-fuel-ratio sensor (a.k.a., universal or linear oxyguretor, IDVDDI=Indirect/direct diesel injection; To ection; SPL=smoke puff limiter; ECM/PCM=engremethod (per 13 CCR 1956.8(a)(6)(D); Exempt	orefix) =warm- en sensor); c/\$C=lurbo/ jine/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 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 i	NM	HC	. N	Ox	NMH	C+NOx	C	:0	F	M	Н	НО
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	٠	•	1.16	1.16	1.3	1.3	*	*	*	*	+	
CERT	0.02	0.01	1.09	0.96	1.1	1.0	0.4	0.02	0.004	0.003		*
NTE	0.	21	1.	74	2	.0	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=Nof-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, as applicable:

- 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; or
- 2. certified under 13 CCR 1956.8(a)(6)(D) [alternatives to main engine idling] shall have an engine shutdown system meeting the requirements in 13 CCR 1956.8(a)(6)(A). The auxiliary power system (APS) equipping each engine in this engine family shall meet the requirements in 13 CCR 2485(c)(3)(A) [internal combustion APS] and shall be provided with an approved "Verified Clean APS" label pursuant to 13 CCR 2485(c)(3)(D) [labeling] and section 35.B.4 of the incorporated HDDE Test Procedures. The "Verified Clean APS" label shall be affixed to the vehicle into which the engine is installed. See the Attachment for a description of the APS.

DETROIT DIESEL CORPORATION

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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.

Executed at El Monte, California on this

day of December 2007.

Annette Hebert, Chief

Mobile Source Operations Division

Engine Model Summary Template

Engine Family	1.Engine Code	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: 9.Emission Control (lbs/hr)@peak torque Device Per SAE J1930
8DDXH14.8EEC		DD15	455@1800	265	158	1550@1240	273	112	ECM, TC, CAC
8DDXH14.8EEC		DD15	475@1800	278	166	1550@1240	273	112	EGR, DOC,
8DDXH14.8EEC		DD15	455@ 1800	265	158	1650@1240	293	120	DPF
8DDXH14.8EEC	<u> </u>	DD15	475@1800	278	166	1650@1240	293	120	(all ratings)
8DDXH14.8EEC	· >	DD15	505@1800	288	172	1650@1240	293	120	HALLIAN INCOMENSATION OF THE PROPERTY OF THE P
8DDXH14.8EEC	 	DD15	455@1800	265	158	1750@1240	311	127	COASIAMAMENTA COMPANIA A COMPANIA DE COMPA
8DDXH14.8EEC	MIN N	DD15	475@1800	278	166	1750@1240	311	127	and came at the Action to table to
8DDXH14.8EEC	III/A	DD15	515@1800	296	177	1750@1240	311	127	· papa sign is a mass of the second of the s
8DDXH14.8EEC	×	DD15	475@1800	275	164	1850@1240	327	134	A Control of the Cont
8DDXH14.8EEC	×	DD15	500@1800	290	173	1850@1240	327	134	e de Colombia de desente de como de tentre de la composition de la colombia del colombia de la colombia de la colombia del colombia de la colombia del la colombia de la colombia del la colombia de la colombia de la colombia del la colombia de
8DDXH14.8EEC	X	DD15	530@1800	302	180	1850@1240	327	134	on di Anna Andro vo (AVIII) a che di chacce marazzante i i idia - di stati i i i i i i income
8DDXH14.8EEC	ШХ	DD15	560@1800	320	191	1850@1240	327	134	~
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