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	SERVICE	ECS & SPECIAL FEATURES	IDLING EMISSIONS
YEAR	LITOINE I AMILI	SIZES (L)		PROCEDURE	CLASS 2	DDI, TC, CAC, ECM, EGR, OC,	CONTROL 5
2008	8DDXH14.0ELC	14.0	Diesel	Diesel	HHDD	PTOX	ESS
ENGINE (L	.)		ENGINE MODEL	S/CODES (rate	d power, in h	p)	
14.0			See attachment	for engine mod	dels and rat	ings	
*				*			
*				*			
•				*			

*=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=kilowaft; hr=hour;

CNG/LNG=compressed/fiquefied 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/M/H HDD=fight/medium/heavy heavy-duty diesel; UB=urban bus; HDO=heavy duty Otto;

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); 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); (Rev.: 2007-12-20)

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. "Diésel" 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	HC	N	Ох	NMH	C+NOx		0	F	М	н	ж
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	•	*	1.16	1.16	1.3	1.3	•	*	*	*		•
CERT	0.01	0.02	1.07	0.97	1.1	1.0	0.2	0.2	0.003	0.001	*	•
NTE	0.	21	1	74	2	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 sting; 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, 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;
- 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] APSI 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,

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; DGF=direct gesoline 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 gontrol module; EM=engine modification; 2 (prefix)=parallel; (2) (suffix)=in series;

DETROIT DIESEL CORPORATION

EXECUTIVE ORDER A-290-0126 New On-Road Heavy-Duty Engines Page 2 of 2

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

1540 1541 1542 1543 1546 1546 1546 1547 1548 1550 1551 1553 1553 1556 1556 1556	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 torqu	8.Fuel Rate: 9.Emission Control (Ibs/hr)@peak torque Device Per SAE J1930
1540 Truck/Coach 445@1800 260.4 155.9 1450@1100 266.0 97.3 EOM. TC. CAC 1541 Truck/Coach 425@4800 249.4 149.3 1450@1100 266.0 97.3 EOR, DCC 1542 Truck/Coach 425@46@1800 284.9 1450@1100 286.0 97.3 EOR, DCC 1543 Truck/Coach 450@1800 284.9 158.6 158.0 104.0 6ll ratings) 1544 Truck/Coach 456/490@1800 284.9 158.6 158.0 104.0 284.3 104.0 1546 Truck/Coach 456/490@1800 284.9 158.0 104.0 284.3 104.0 1549 Truck/Coach 456/490@1800 284.9 182.4 1550@110 284.3 104.0 1549 Truck/Coach 456/490@1800 284.1 182.4 1550@110 284.3 104.0 1549 Truck/Coach 47061800 284.4 148.3 1450@110 284.3 104.0 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>e princepon trade importante a second con a constitution of</td><td>egy a tragit has a fire of a surface of a consequence of a company of a common of a firm an analysis above to some</td></t<>									e princepon trade importante a second con a constitution of	egy a tragit has a fire of a surface of a consequence of a company of a common of a firm an analysis above to some
1541 TruckCoach 428@1800 249.4 149.3 1450@1100 266.0 97.3 EGR, DOC 15A2 TruckCoach 428/45@1800 287.0 171.8 1550@1100 266.0 97.3 EGR, DOC 15A3 TruckCoach 456@1800 287.0 171.8 1550@1100 284.3 104.0 (all ralings) 15A4 TruckCoach 455@1800 264.9 158.6 1550@1100 284.3 104.0 (all ralings) 15A4 TruckCoach 455/450@1800 304.7 182.4 1550@1100 284.3 104.0 (all ralings) 15A9 TruckCoach 455/460@1800 304.7 182.4 1550@1100 284.3 104.0 11.9 15A9 TruckCoach 515@1800 304.7 182.4 1650@1100 305.9 111.9 11.9 15A9 TruckCoach 470@1800 260.4 155.0 1650@1100 305.9 111.9 15S0 TruckCoach 470@1800 260.4 155.0	8DDXH14 0FI C	1540	Truck/Coach	445@1800	260.4	155.9	1450@1100	266.0	97.3	ECM, TC, CAC
1542 Truck/Coach 425445@1800 287.0 171.8 1550@1100 286.0 97.3 DPF 1543 Truck/Coach 455@1800 287.0 171.8 1550@1100 284.3 104.0 (ali ratings) 1544 Truck/Coach 455@1800 284.9 158.6 1550@1100 284.3 104.0 (ali ratings) 1546 Truck/Coach 455@1800 304.7 182.4 1550@1100 284.3 104.0 (ali ratings) 1547 Truck/Coach 451@1800 304.7 182.4 1550@1100 284.3 104.0 (ali ratings) 1548 Truck/Coach 451@1800 304.7 182.4 1550@1100 284.3 104.0 (ali ratings) 1549 Truck/Coach 470@1800 278.1 188.2 1550@1100 284.3 104.0 (ali ratings) 1550 Truck/Coach 470@1800 278.1 185.0 110.0 305.9 111.9 1550 Firetuck 445@1800 280.4 1	8DDXH14.0ELC	1541	Truck/Coach	425@1800	249.4	149.3	1450@1100	266.0	97.3	EGR, DOC
1543 Truck/Coach 490@1800 287.0 171.8 1550@1100 284.3 104.0 (all ratings) 1544 Truck/Coach 455@1800 284.9 158.6 1550@1100 224.3 104.0 (all ratings) 1546 Truck/Coach 455@1800 304.7 182.4 1550@1100 284.3 104.0 (all ratings) 1547 Truck/Coach 455@1800 304.7 182.4 1550@1100 284.3 104.0 (all ratings) 1548 Truck/Coach 490/515@1800 278.1 182.4 1550@1100 284.3 104.0 (all ratings) 1549 Truck/Coach 490/515@1800 278.1 182.4 1550@1100 284.3 111.9 (all ratings) 1550 Truck/Coach 470@1800 278.1 182.4 1450@1100 286.0 97.3 111.9 1551 Firefruck 445@1800 280.4 149.3 1450@1100 284.3 104.0 1554 Firefruck 455@1800 284.9	8DDXH14.0ELC	1542	Truck/Coach	425/445@1800	(1450@1100	266.0	97.3	DPF
1544 Truck/Coach 455@1800 264.9 158.6 156@1100 284.3 104.0 1545 Truck/Coach 455/490@1800 304.7 182.4 1550@110 284.3 104.0 1546 Truck/Coach 515@1800 304.7 182.4 1550@110 284.3 104.0 1547 Truck/Coach 515@1800 304.7 182.4 1650@110 284.3 104.0 1548 Truck/Coach 515@1800 304.7 182.4 1650@110 284.3 104.0 1550 Truck/Coach 515@1800 304.7 182.4 1650@110 305.9 111.9 1550 Truck/Coach 470@1800 278.1 165.9 1450@110 305.9 111.9 1551 Firefruck 445@1800 260.4 155.9 1450@110 284.3 104.0 1552 Firefruck 445@1800 260.4 155.9 1450@110 305.9 111.9 1553 Firefruck 515@1800 264.9 <td< td=""><td>8DDXH14.0ELC</td><td>1543</td><td>Truck/Coach</td><td>490@1800</td><td>287.0</td><td>171.8</td><td>1550@1100</td><td>284.3</td><td>104.0</td><td>(all ratings)</td></td<>	8DDXH14.0ELC	1543	Truck/Coach	490@1800	287.0	171.8	1550@1100	284.3	104.0	(all ratings)
1545 Truck/Coach 455/490@1800 304.7 182.4 155@@1100 284.3 104.0 1546 Truck/Coach 515@1800 304.7 182.4 155@@1100 284.3 104.0 1547 Truck/Coach 490/515@1800 304.7 182.4 155@@1100 284.3 104.0 1548 Truck/Coach 470@1800 278.1 166.5 1650@1100 305.9 111.9 1550 Truck/Coach 470@1800 278.1 166.5 1650@1100 305.9 111.9 1551 Firefruck 470/515@1800 260.4 155.9 1450@1100 266.0 97.3 1552 Firefruck 445@1800 280.4 145.0 1450@1100 266.0 97.3 1553 Firefruck 456@1800 284.4 149.3 1450@1100 284.3 104.0 1554 Firefruck 456@1800 284.9 1450@1100 284.3 104.0 1556 Firefruck 456@1800 284.9 145.0	8DDXH14.0ELC	1544	Truck/Coach	455@1800	264.9	158.6	1550@1100	284.3	104.0	ente des la constitución de companyon en la companyon de la constitución de la constitución de la constitución
1546 Truck/Coach 515@1800 304.7 182.4 1550@1100 284.3 104.0 1547 Truck/Coach 490/515@1800 304.7 182.4 1550@1100 284.3 104.0 1548 Truck/Coach 470@1800 278.1 182.4 1650@1100 305.9 111.9 1550 Truck/Coach 470@1800 278.1 186.5 1650@1100 305.9 111.9 1550 Truck/Coach 470@1800 260.4 155.9 1450@1100 305.9 111.9 1551 Firefruck 445@1800 260.4 155.9 1450@1100 266.0 97.3 1552 Firefruck 456@1800 264.9 156.0 171.8 155.0 104.0 1554 Firefruck 456@1800 264.9 156.0 104.0 97.3 1555 Firefruck 456@1800 264.9 156.0 104.0 97.3 1556 Firefruck 456@1800 304.7 182.4 1550@1100 305.9	8DDXH14.0ELC	1545	Truck/Coach	455/490@1800			1550@1100	284.3	104.0	 a Kundira Hal jadi seftminin manara tumodom don server. Halabber A Monton
1547 Truck/Coach 490/515@1800 304.7 182.4 1550@1100 284.3 104.0 1548 Truck/Coach 515@1800 304.7 182.4 1650@1100 305.9 111.9 1550 Truck/Coach 470/515@1800 278.1 166.5 1650@1100 305.9 111.9 1550 Truck/Coach 470/515@1800 260.4 155.9 1450@1100 266.0 97.3 1551 Firefruck 445@1800 260.4 155.9 1450@1100 266.0 97.3 1552 Firefruck 445@1800 264.9 158.6 1550@1100 266.0 97.3 1553 Firefruck 455@1800 264.9 158.6 1550@1100 284.3 104.0 1554 Firefruck 455@1800 304.7 182.4 1550@1100 284.3 104.0 1556 Firefruck 450@1800 304.7 182.4 1550@1100 305.9 111.9 1557 Firefruck 470@1800 278.1	8DDXH14.0ELC	1546	Truck/Coach	515@1800	304.7	182.4	1550@1100	284.3	104.0	Section 4 and the section of the sec
1548 Truck/Coach 515@1800 304.7 182.4 1650@1100 305.9 111.9 1549 Truck/Coach 470/515@1800 278.1 166.5 1650@1100 305.9 111.9 1550 Truck/Coach 470/515@1800 278.1 166.5 1650@1100 305.9 111.9 1551 Firetruck 445@1800 260.4 155.9 1450@1100 266.0 97.3 1551 Firetruck 425@1800 289.4 149.3 1450@1100 266.0 97.3 1554 Firetruck 436@1800 287.0 171.8 1550@1100 284.3 104.0 1555 Firetruck 515@1800 264.9 168.0 104.0 284.3 104.0 1556 Firetruck 515@1800 304.7 182.4 1550@1100 305.9 111.9 1557 Firetruck 470@1800 278.1 165.0 104.0 305.9 111.9	8DDXH14.0ELC	1547	Truck/Coach	490/515@1800			1550@1100	284.3	104.0	A
1549 Truck/Coach 470@1800 278.1 166.5 1650@1100 305.9 111.9 1550 Truck/Coach 470/515@1800 278.1 1650@1100 305.9 111.9 1551 Firefruck 445@1800 260.4 155.9 1450@1100 266.0 97.3 1552 Firefruck 425@1800 264.4 149.3 1450@1100 266.0 97.3 1554 Firefruck 456@1800 264.9 156.0 171.8 1550@1100 284.3 104.0 1556 Firefruck 456@1800 264.9 158.6 1550@1100 284.3 104.0 1556 Firefruck 515@1800 304.7 182.4 1550@1100 284.3 104.0 1556 Firefruck 515@1800 304.7 182.4 1650@1100 305.9 111.9 1557 Firefruck 470@1800 278.1 166.5 1650@1100 305.9 111.9	8DDXH14.0ELC	1548	Truck/Coach	515@1800	304.7	182.4	1650@1100	305.9	111.9	
1550 Truck/Coach 470/515@1800 1650@1100 305.9 111.9 1551 Firetruck 445@1800 260.4 155.9 1450@1100 266.0 97.3 1552 Firetruck 426@1800 284.4 149.3 1450@1100 266.0 97.3 1553 Firetruck 456@1800 284.4 149.3 1450@1100 284.3 104.0 1554 Firetruck 455@1800 264.9 158.6 1550@1100 284.3 104.0 1556 Firetruck 515@1800 304.7 182.4 1550@1100 284.3 104.0 1556 Firetruck 515@1800 304.7 182.4 1550@1100 305.9 111.9 1557 Firetruck 515@1800 304.7 182.4 1650@1100 305.9 111.9	8DDXH14.0ELC	1549	Truck/Coach	470@1800	278.1	166.5	1650@1100	305.9	111.9	Yes and the second
1551 Firetruck 445@1800 260.4 155.9 1450@1100 266.0 97.3 1552 Firetruck 425@1800 249.4 149.3 1450@1100 266.0 97.3 1553 Firetruck 490@1800 287.0 171.8 1550@1100 284.3 104.0 1554 Firetruck 455@1800 264.9 158.6 1550@1100 284.3 104.0 1556 Firetruck 515@1800 304.7 182.4 1550@1100 284.3 104.0 1556 Firetruck 515@1800 304.7 182.4 1650@1100 305.9 111.9 1557 Firetruck 470@1800 278.1 166.5 1650@1100 305.9 111.9	8DDXH14.0ELC	1550	Truck/Coach	470/515@1800			1650@1100	305.9	111.9	C. C
1551 Firetruck 445@1800 260.4 155.9 1450@1100 266.0 97.3 1552 Firetruck 425@1800 249.4 149.3 1450@1100 266.0 97.3 1553 Firetruck 490@1800 287.0 171.8 1550@1100 284.3 104.0 1554 Firetruck 515@1800 304.7 182.4 1550@1100 284.3 104.0 1556 Firetruck 515@1800 304.7 182.4 1650@1100 305.9 111.9 1557 Firetruck 470@1800 278.1 166.5 1650@1100 305.9 111.9	are the man and the man and the man are the man and the man and the man are th		econdar na alba i (177) e è · · · · · · di (177) e i edena (187) e i edena (187) e e i edena (187) e e e e e e		en e	AND THE PROPERTY OF THE PROPER				
1552 Firetruck 425@1800 249.4 149.3 1450@1100 266.0 97.3 1553 Firetruck 490@1800 287.0 171.8 1550@1100 284.3 104.0 1554 Firetruck 515@1800 304.7 182.4 1550@1100 384.3 104.0 1556 Firetruck 515@1800 304.7 182.4 1650@1100 305.9 111.9 1557 Firetruck 470@1800 278.1 166.5 1650@1100 305.9 111.9	8DDXH14.0ELC	1551	Firetruck	445@1800	260.4	155.9	1450@1100	266.0	97.3	
1553 Firetruck 490@1800 287.0 171.8 1550@1100 284.3 104.0 1554 Firetruck 515@1800 304.7 182.4 1550@1100 284.3 104.0 1555 Firetruck 515@1800 304.7 182.4 1650@1100 305.9 111.9 1557 Firetruck 470@1800 278.1 166.5 1650@1100 305.9 111.9	8DDXH14.0ELC	1552	Firetruck	425@1800	249.4	149.3	1450@1100	266.0	97.3	
1554 Firetruck 455@1800 264.9 158.6 1550@1100 284.3 104.0 1555 Firetruck 515@1800 304.7 182.4 1550@1100 305.9 111.9 1557 Firetruck 470@1800 278.1 166.5 1650@1100 305.9 111.9	8DDXH14.0ELC	1553	Firetruck	490@1800	287.0	171.8	1550@1100	284.3	104.0	and south that the same and and anti-anti-same same and same same same same same same same same
1555 Firetruck 515@1800 304.7 182.4 1550@1100 284.3 104.0 1556 Firetruck 515@1800 304.7 182.4 1650@1100 305.9 111.9 1557 Firetruck 470@1800 278.1 166.5 1650@1100 305.9 111.9	8DDXH14.0ELC	1554	Firetruck	455@1800	264.9	158.6	1550@1100	284.3	104.0	
1556 Firetruck 515@1800 304.7 182.4 1650@1100 305.9 111.9 1557 Firetruck 470@1800 278.1 166.5 1650@1100 305.9 111.9	8DDXH14.0ELC	1555	Firetruck	515@1800	304.7	182.4	1550@1100	284.3	104.0	Labor and Labor Additional Additions from Charles Labor (2000) Honor Color Apartment
1557 Firetruck 470@1800 278.1 166.5 1650@1100 305.9 111.9	8DDXH14.0ELC	1556	Firetruck	515@1800	304.7	182.4	1650@1100	305.9	111.9	
	8DDXH14.0ELC	1557	Firetruck	470@1800	278.1	166.5	1650@1100	305.9	111.9	
	Reprise A Consequence of the con	mpikat firm Medallist. sa Nissan da Adad dha Maryingaa aan kersiyi p	д не поставления поставления поставления поставления поставления поставления поставления поставления поставлен			man and a second common transport of the second sec				
	A reasy model after consequences and seasons and the characteristics and these companies to the consequences of the consequenc							AND THE RESIDENCE AND ASSESSED TO SERVICE STREET, STRE	A CONTRACTOR OF THE PROPERTY O	The course of th