CALIFORNIA
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Pursuant to the authority vested in California 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-19-095;

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 3	DIAGNOSTIC ⁶ OBD(P)
YEAR	ENGINE FAMILI	SIZES (L)		PROCEDURE	CLASS 2	TBI, TC, CAC, ECM, EGR, TWC,	
2020	LCEXH0408BBC	6.7	CNG/LNG	Diesel	MHDD	HO2S	
	CONTROL 5		A	DDITIONAL IDLE EN	ISSIONS CO	NTROL ⁵	
N	I/A			N	/A		
ENGINE (L)			ENGINE MO	DELS / CODES (rat	ed power, in l	hp)	
6.7		Be	B6.7N 5.7N 220 / 5679;FR97	240 / 5679;FR97 193 (220) B6 7N		:FR97194 (200)	

³ 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; SFIMFI=sequential/multi port fuel injection; DGF=direct gasoline injection; CGCAB=gaseous carburetor, ID/DDI=indirect/direct direct injection; TC/SC=urbo/ 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=angine/powertrain control module; EM=engine modification; 2 (prefix)=paralle); (2) (suffix)=in series;

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); 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(F) / (P) / (\$)=full / partial / partial with a fine / on-board diagnostic;).

Following are: 1) the FTP exhaust emission standards, or family emission limit(s) as applicable, under 13 CCR 1956.8; the SET 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, SET 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.) 4 parentheses.).

in g/bhp-hr	NMHC		NOx		NMHC+NOx		CO		PM		нсно	
	FTP	SET	FTP	SET	FTP	SET	FTP	SET	FTP	SET	FTP	SET
STD	0.14	0.14	0.02	0.02			15.5	15.5	0.01	0.01		
CERT	0.03	0.01	0.01	0.000	· · · · · · ·	1.00	1.6	0.05	0.002	0.000	•	
NTE	0,	21	0.	.03		•	19	9.4	0.	02		•

g/bhp-hr=grams per brake horsepower-hour; FTP=Federal Test Procedure; SET= 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

BE IT FURTHER RESOLVED: That the listed engine family is certified to the Optional Low NOx Emission Standards as specified in 13 CCR 1956.8(a)(2)(A) and section 11.B.7 of the incorporated "California Exhaust Emission Standards and Test Procedures for 2004 and Subsequent Model Heavy Duty Diesel-Engines and Vehicles" adopted December 12, 2002, as last amended April 18, 2019.

BE IT FURTHER RESOLVED: The manufacturer has demonstrated compliance with the Greenhouse Gas Emission Standards as specified in Title 13 CCR 1956.8 and the incorporated "California Exhaust Emission Standards and Test Procedures for 2004 and Subsequent Model Heavy Duty Diesel-Engines and Vehicles" (HDDE Test Procedures) adopted December 12, 2002, as last amended April 18, 2019 using the 2014 model year National Heavy-Duty Engine and Vehicle Greenhouse Gas Program as specified in Section 1036.108 of the HDDE Test Procedures. The manufacturer has submitted the required information and therefore has met the criteria necessary to receive a California Executive Order based on the Environmental Protection Agency's Certificate of Conformity for the above listed engine family.

1000	EPA CERTIFICATI	OF CONFORMITY	PRIMARY INTENDED SERVICE CLASS				
	LCEXH04	06BBC-013	VOCATIONAL				
in	C	O2	C (1)				
g/bhp-hr	FTP	SET	CH4	N ₂ O			
STD	576	2.	0.10	0.10			
FCL	555	1 p	14 T	•			
FEL	572		0.90	0.10			
CERT	508		0.19	0.02			

g/bhp-hr=grams per brake horsepower-hour, FTP=Federal Test Procedure; SET=Supplemental emissions testing; STD = standard or emission test cap. FEL=family emission limit; TRACTOR=tractor engine FCL=family certification level; CERT=certification level; CO2=carbon dioxide; CH4=methane; N2O=nitrous oxide: VOCATIONAL=vocational engine;

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BE IT FURTHER RESOLVED: Certification to the FEL(s) / FCL(s) listed above, as applicable, is subject to the following terms, limitations and conditions. The FEL(s) / FCL(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: For the listed engine models the manufacturer has submitted the materials to demonstrate certification compliance with 13 CCR 1965 (emission control labels), 13 CCR 1971.1 (on-board diagnostic, full or partial compliance) 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 January 2020.

Allen Zyons, Chief Emissions Certification and Compliance Division

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E0#: A-021-0720 12/18/2019

Engine Model Summary Template

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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		9.Emission Control ueDevice Per SAE J1930
LCEXH0408BBC	5679;FR97192	B6.7N 240	240@2400	N/A	N/A	560@1600	N/A	N/A	TBLTC,CAC,ECM,
LCEXH0408BBC	5679;FR97193	B6.7N 220	220@2400	N/A	N/A	520@1600	N/A	N/A	TBI,TC,CAC,ECM,
LCEXH0408BBC	5679;FR97194	B6.7N 200	200@2400	N/A	N/A	520@1600	N/A	N/A	TH,TC,CAC,ECM

TBI, TC, CAC, ECM, EGR, TWC, HD2S