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-14-012;

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		FUEL TYPE	STANDARDS & TEST	INTENDED SERVICE	ECS & SPECIAL FEATURES 3	DIAGNOSTIC ⁶ OBD(\$)			
TEAR		SIZES (L)		PROCEDURE	CLASS 2	DDI, TC, CAC, ECM, EGR, OC,				
2018	JCEXH0408BAV	Diesel	Diesel UB-Hybrid		PTOX, SCR-U, AMOX					
	SCONTROL		ADD	TIONAL IDLE EN	ISSIONS CON	NTROL ⁵				
E	Exempt			N	/A					
ENGINE (L)		ENGINE MODE	LS / CODES (rat	ted power, in	hpl				
6.7			B6.7 280 B6.7 280H / 4568;FR947	H / 4568;FR94 55 (270) (mod		/ start feature)				
	cable, GVWR=gross vehicle v =horsepower; kw=kilowatt; h		R xyz=Title 13, California Code of	Regulations, Sect	ion xyz; 40 CF	R 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/M/H HDD=light/medium/heavy heavy-duty diesel; UB=urban bus; HDO=heavy duty Otto;										
						tive catalytic reduction – urea / ammonia; Wi air-fuel-ratio sensor (a.k.a., universal or linear ox				
						air-ruei-ratio sensor (a.k.a., universal or linear of buretor: IDI/DDI=indirect/direct diesel injection:				
						injection; SPL=smoke puff limiter; ECM/PCM=				

control module: EM=engine modification; 2 (prefix)=parallel, (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):

6 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; 2) 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

in	NMHC		NOx		NMHC+NOx		co		PM		нсно	
g/bhp-hr	FTP	SET	FTP	SET	FTP	SET	FTP	SET	FTP	SET	FTP	SET
STD	0.14	0.14	0.20	0.20	1 *	*	15.5	15.5	0.01	0.01	*	*
CERT	0.03	0.01	0.14	0.09	*	*	0.01	0.00	0.002	0.001	*	*
NTE	0.21			0.30	*		19.4		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: 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 Dec. 12, 2002, as last amended Sep. 1, 2017 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.

		E OF CONFORMITY 08BAV-004	PRIMARY INTENDED SERVICE CLASS			
In		CO2		N ₂ O		
g/bhp-hr	FTP	SET	CH₄			
STD	555	*	0.10	0.10		
CL	567	*	*	*		
FEL	584	*	0.10	0.10		
CERT	566	*	0.02	0.09		

FCL=family certification level; CERT=certification level; CO2=carbon dioxide; CH4=methane; N2O=nitrous oxide; VOCATIONAL=vocational engine; TRACTOR=tractor engine

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).

BE IT FURTHER RESOLVED: The listed engine models are conditionally certified in accordance with 13 CCR Section 1971.1(k) (deficiency and fines provisions for certification of malfunction and diagnostic system) because the heavy-duty on-board diagnostic (HD OBD) system of the listed engine models has been determined to have thirteen deficiencies. The listed engine models are approved subject to the manufacturer paying a fine of \$400 per engine for the third through thirteenth deficiencies in the listed engine family that is produced and delivered for sale in California. On a quarterly basis, the manufacturer shall submit to California Air Resources Board reports of the number of engines produced and delivered for sale in California and pay the full fine owed for that quarter pursuant to this conditional certification. Payment shall be made payable to the State Treasurer for deposit in the Air Pollution Control Fund no later than thirty (30) days after the end of each calendar quarter during the 2018 model-year production period. Failure to pay the quarterly fine, in full, in the time provided, may be cause for the Executive Officer to rescind this conditional certification, effective from the start of the quarter in question, in which case all engines covered under this conditional certification for that quarter and all future quarters would be deemed uncertified and subject to a civil penalty of up to \$5000 per engine pursuant to HSC Section 43154.

BE IT FURTHER RESOLVED: The listed engine models have been certified to operate in the primary intended service class for urban buses with the emission compliance useful-life of 435,000 miles, 10 years, or 22,000 hours, whichever occurs first. The listed engine models were designed by the engine manufacturer with an emissions compliance period of 185,000 miles. To demonstrate the useful life emissions compliance of the intended service class of an urban bus, the engine manufacturer shall provide a required service to the engine at, or about, 185,000 and 370,000 miles of the urban bus. The required service shall include a replacement engine, related parts and labor.

BE IT FURTHER RESOLVED: Each replacement engine may be: 1) a newly California certified urban bus engine of the model year in which the service interval occurs, 2) a new replacement engine in all material respects the same as the engines listed in this Executive Order, or 3) a newly remanufactured engine conforming to all specifications of the engines listed in this Executive Order or conforming to all specifications of newer model-year engines certified to the urban bus primary intended service class.

BE IT FURTHER RESOLVED: The Cummins hybrid engine ratings listed on this Executive Order may only be used with new on-road Allison hybrid system models hybrid system models whose on-board diagnostic system have been approved as compatible.

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 2018.

Annette Hebert, Chief Emissions Compliance, Automotive Regulations and Science Division

Engine Model Summary Template

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	9.Emission Control PeDevice Per SAE J1930
JCEXH0408BAV	4568;FR94740	B6.7 280H	270@2600	109	96	660@1600	125	67	SCRC, PTOX, PC
JCEXH0408BAV									
JCEXH0408BAV		Stop/Start							
JCEXH0408BAV	4568;FR94755	B6.7 280H	270@2600	109	96	660@1600	125	67	SERC, PTOX, RC
								Ę	DDI, TC, CAC, CM, EGR, OC TOX, SCR-U AMOX