

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-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 FAM	ıv	ENGINE	FUEL TYPE 1	STANDARDS & TEST	SERVICE	ECS & SPECIAL FEATURES 3	DIAGNOSTIC ⁶					
YEAR	ENOUGETAIN	ENGINE I AMIL		SIZES (L)			PROCEDURE		CLASS 2	DDI, TC, CAC, ECM, EGR, OC.			
2019	019 KCEXH0408B		6.7	Diesel	Diesel	MHDD	PTOX, SCR-U, AMOX	OBD(\$)					
PRIMARY ENGINE'S IDLE EMISSIONS CONTROL 5			ADDITIONAL IDLE EMISSIONS CONTROL 5										
30g		N/A											
ENGINE (L))			ENGINE MO	DELS / CODES (ra	ted power, in	hp)						
6.7	See attachment for engine models and ratings												

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;

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=atternative 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; M/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; 2) the SET 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. "Diésel" CO, SET and NTE certification compliancé 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	NMHC		NOx		NMHC+NOx		co		PM		HCHO	
g/bhp-hr	FTP	SET	FTP	SET	FTP	SET	FTP	SET	FTP	SET	FTP	SET
STD	0.14	0.14	0.20	0.20	*		15.5	15.5	0.01	0.01	*	
CERT	0.03	0.02	0.15	0.10	*	*	0.04	0.01	0:001	0.001	*	*
NTE	0.:	21	0	.30		*	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;

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 September 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.

	EPA CERTIFICATI	OF CONFORMITY	PRIMARY INTENDED SERVICE CLASS TRACTOR / VOCATIONAL				
In g/bhp-hr	KCEXH04	08BAT-011					
	C	O ₂	CH	N ₂ O			
	FTP	SET	CH4	N ₂ O			
STD	576	487	0.10	0.10			
FCL	528	494	*	*			
FEL	544	509	0.10	0.10			
CERT	525	488	0.02	0.08			

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; FCL=family certification level; CERT=certification level; CO2=carbon dioxide; 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: 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 December 12, 2002, as last amended September 1, 2017, 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: 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: That the manufacturer has elected to include engine models in this engine family which are identified for "emergency vehicle use only". These "emergency vehicle use only" engines are exempt from requirements imposed pursuant to California law and the regulations adopted pursuant thereto for motor vehicle pollution control devices per California Vehicle Code Section 27156.2. The manufacturer must clearly label these engines for "emergency vehicle use only" on the engines' emission control label.

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 ten deficiencies. The listed engine models are approved subject to the manufacturer paying a fine of \$275 per engine for the third through tenth 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 2019 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 \$37,500 per engine pursuant to HSC Section 4315.

BE IT FURTHER RESOLVED: Per Cummins' request for conditional Executive Order (EO) approval (Cummins' Request) dated December 17, 2018, the listed engine models are certified conditionally on Cummins' completing the agreed upon testing and submittal of a test report by February 11, 2019. Cummins agrees to cooperate with CARB on any potential remedies identified through the agreed upon 2019 MY engine testing including, if necessary, the need for a service campaign for in use vehicles, and running changes to engines still in production. If a service campaign (voluntary recall) is needed, a year after the implementation of the service campaign, Cummins shall report to CARB the Vehicle Identification Numbers (VINs) of these vehicles that do not have the improvements provided in the CARB-approved running change. Cummins understands that failure to submit the test data in the allowed time, or failure of the submitted test data or information to demonstrate compliance with the emission standards, or Heavy Duty On-Board Diagnostics (HD OBD) requirements, shall be cause for the Executive Officer to revoke the conditional EO ab initio. Engines sold or introduced into commerce under the revoked conditional EO shall be deemed uncertified and subject to a civil penalty of up to \$37,500 per violation per vehicle pursuant to HSC Section 43154.

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

Annette Hebert, Chief

Émissions Compliance, Automotive Regulations and Science Division

day of December 2018.

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 BDevice Per SAE J1930
CEXH0408BAT	4660;FR94746	B6.7 360	360@2600	146	128	800@1800	148 ·	90	SCRC, PTOX, P
CEXH0408BAT	4660;FR96706	B6.7 360ST	360@2600	146	128	800@1800	148	90	SCRC, PTOX, PC
CEXH0408BAT	4660;FR94745	B6.7 340	340@2600	138	121	700@1600	134	73	SCRC, PTOX, PC
CEXH0408BAT	4660;FR96705	B6.7 340ST	340@2600	138	121	700@1600	134	73	SCRC, PTOX, PC
CEXH0408BAT	4660;FR94744	B6.7 325	315@2600	127	112 .	750@1800	143	87	SCRC, PTOX PC
CEXH0408BAT	4660;FR96704	B6.7 325ST	315@2600	127	112	750@1800	143	87	SCRC, PTOX, PC
CEXH0408BAT	4660;FR94743	B6.7 300	300@2600	121	106	660@1600	125	67	SCRC, PTOX, PC
CEXH0408BAT	4661;FR94749	B6.7 300	300@2600	121	106	660@1600	125	67	SCRC, PTOX, PC
CEXH0408BAT	4660;FR94741	B6.7 280	270@2600	109	96	660@1600	125	67	SCRC, PTOX, PC
CEXH0408BAT	4661;FR94742	B6.7 280	270@2600	109	96	660@1600	125	67	SCRO, PTOX, PC
CEXH0408BAT	4569;FR94738	B6.7 260	250@2600	109	96	660@1600	122	66	SCRC PTOX, PC
CEXH0408BAT	4570;FR94739	B6.7 260	250@2600	109	96	660@1600	122	66	SCRC, PTOX, PC
CEXH0408BAT	4569;FR94736	B6.7 250	245@2600	107	94	660@1600	122	66	SCRC, PTOX, PC
CEXH0408BAT	4570;FR94737	B6.7 250	245@2600	107	94	660@1600	122	66	SCRC/PTOX, PC
CEXH0408BAT	4569;FR94734	B6.7 240	235@2600	103	90	560@1600	104	56	SCRC, PTOX, PC
CEXH0408BAT	4570;FR94735	B6.7 240	235@2600	103	90	560@1600	104	56	SCRC, PTOX, PC
CEXH0408BAT	4569;FR94733	B6.7 220	215@2600	95	83	520@1600	97	52	SCRC, PTOX, PC
CEXH0408BAT	4569;FR95098	B6.7 220	215@2600	95	83	600@1600	111	60	SCRC, PTOX, PC
CEXH0408BAT	4570;FR94748	B6.7 220	215@2600	95	83	520@1600	97	52	SCRC, PTOX, PC
CEXH0408BAT	4570;FR95099	B6.7 220	215@2600	95	83	600@1600	111	60	SCRC, PTOX, PC
CEXH0408BAT	4569;FR94732	B6.7 200	195@2600	87	76	520@1600	97	52	SCRC, PTOX, PC
CEXH0408BAT	4570;FR94747	B6.7 200	195@2600	87	.76	520@1600	97	52	SCRC, PTOX, PC
CEXH0408BAT	4660;FR94746	PX-7 360	360@2600	146	128	800@1800	148	90	SCRC, PTOX, PC
CEXH0408BAT	4660;FR96706	PX-7 360ST	360@2600	146	128	800@1800	148	90	SCRC, PTOX, PC
CEXH0408BAT	4660;FR94745	PX-7 340	340@2600	138	121	700@1600	134	73	SCRC, PTOX, PC
CEXH0408BAT	4660;FR96705	PX-7 340ST	340@2600	138	121	700@1600	134	73	SCRC, PTOX PC
CEXH0408BAT	4660;FR94744	PX-7 325	315@2600	127	112	750@1800	143	87	SCRC, PTOX, PC
CEXH0408BAT	4660;FR96704	PX-7 325ST	315@2600	127	112	750@1800	143	87	SCRC, PTOX, PC

EGR, ECM, OG, PTOX, TC, CAC, DDI, SCR-4. AMOX

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 @Device Per SAE J1930
KCEXH0408BAT	4660;FR94743	PX-7 300	300@2600	121	. 106	660@1600	125	67	\$CRC, PTOX, P
KCEXH0408BAT	4661;FR94749	PX-7 300	300@2600	121	106	660@1600	125	67	SCRC, PTOX, P
KCEXH0408BAT	4660;FR94741	PX-7 280	270@2600	109	96	660@1600	125	67	SCRC, PTOX, P
KCEXH0408BAT	4661;FR94742	PX-7 280	270@2600	109	96	660@1600	125	67	SCRC, PTOX, P
KCEXH0408BAT	4569;FR94738	PX-7 260	250@2600	109	96	660@1600	122	66	SCRC, PTOX, F
KCEXH0408BAT	4570;FR94739	PX-7 260	250@2600	109	96	860@1600	122	66	SCRC, PTOX, P
KCEXH0408BAT	4569;FR94736	PX-7 250	245@2600	107	94	660@1600	122	66	SCRC, PTOX, P
KCEXH0408BAT	4570;FR94737	PX-7 250	245@2600	107	94	660@1600	122	66	SCRC, PTOX P
KCEXH0408BAT	4569;FR94734	PX-7 240	235@2600	103	90	560@1600	104	56	SCRC PTOX, P
KCEXH0408BAT	4570;FR94735	PX-7 240	235@2600	103	90	560@1600	104	56	SCRC, PTOX, P
KCEXH0408BAT	4569;FR94733	PX-7 220	215@2600	95	83	520@1600	97	52	SCRC, PTOX, P
KCEXH0408BAT	4569;FR95098	PX-7 220	215@2600	95	83	600@1600	111	60	SCRC, PTOX, P
KCEXH0408BAT	4570;FR94748	PX-7 220	215@2600	95	83	520@1600	97	52	SCRC, PTOX, P
KCEXH0408BAT	4570;FR95099	PX-7 220	215@2600	95	83	600@1600	411	60	SCRC, PTOX, P
KCEXH0408BAT	4569;FR94732	PX-7 200	195@2600	87	76	520@1600	97	52	SCRC, PTOX, P
KCEXH0408BAT	4570;FR94747	PX-7 200	195@2600	87	76	520@1600	97	52	SCRC, PTOX, P
KCEXH0408BAT	"								
KCEXH0408BAT	Emergency	Vehicle	Ratings	Below	•	ACHARD MADE A			
KCEXH0408BAT	4661;FR94751	B6.7 360 EV	360@2600	146	128	800@1800	148	90	SCRC, PTOX, P
KCEXH0408BAT	4661;FR94750	B6.7 340 EV	340@2600	138	121	700@1600	134	73	SCRC, TOX, P
KCEXH0408BAT	4660;FR94744	B6,7 325 EV	315@2600	127	112	750@1800	143	87	SCRC, PTOX, P
KCEXH0408BAT	4660;FR94743	B6.7 300 EV	300@2600	121	106	660@1600	125	67	SCRC, PTOX, P
KCEXH0408BAT	4660;FR94741	B6.7 280 EV	270@2600	109	96	660@1600	125	67	SCRC, PTOX, P
KCEXH0408BAT	4569;FR94738	B6.7 260 EV	250@2600	109	96	660@1600	122	66	SCRC, PTOX, P
KCEXH0408BAT	4661;FR94751	PX-7 360 EV	360@2600	146	128	800@1800	148	90	SCRC, PTOX, P
KCEXH0408BAT	4661;FR94750	PX-7 340 EV	340@2600	138	121	700@1600	134	73	SCRC, PTOX, P
KCEXH0408BAT	4660;FR94744	PX-7 325 EV	315@2600	127	112	750@1800	143	87	SCRC, PTOX, P
KCEXH0408BAT	4660;FR94743	PX-7 300 EV	300@2600	121	106	660@1600	125	67	SCRC, PTOX, P

EGR, Ean, or Prox, TC, CAG DDI, SCR-4, Amox

FO#: A- 021-0691

A Hanhwent: 3.73

Engine Model Summary Template

12-13-2012

				4.Fuel Rate:	5.Fuel Rate:		7.Fuel Rate:		
			3.BHP@RPM	mm/stroke @ peak HP	-11 -41 . 141-1	6.Torque @ RPM	mm/stroke@peak		9.Emission Control
Engine Family	1.Engine Code	2.Engine Model	(SAE Gross)	(for diesel only)	(for diesels only)	(SEA Gross)	torque	(lbs/hr)@peak toro	QueDevice Per SAE J1930
KCEXH0408BAT	4660;FR94741	PX-7 280 EV	270@2600	109	96	660@1600	125	67	SCRC, PTOX PC
KCEXH0408BAT	4569;FR94738	PX-7 260 EV	250@2600	109	96	660@1600	122	66	SCBO, PTOX.PC
KCEXH0408BAT									

EGR, ECM, OC, pTOX, TC, CAC, DDI, SCR-U, A MOX