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 KCEXH0540LBL		ENGINE	FUEL TYPE 1	STANDARDS & TEST	SERVICE CLASS 2	ECS & SPECIAL FEATURES 3	DIAGNOSTIC ⁶ OBD(\$)			
YEAR			SIZES (L)		PROCEDURE		TBI, TC, CAC, ECM, EGR, TWC,				
2019			8.9	CNG/LNG	Diesel	MHDD	HO2S				
PRIMARY ENGINE'S IDLE EMISSIONS CONTROL 5 N/A		ADDITIONAL IDLE EMISSIONS CONTROL 5 N/A									
ENGINE (L	.)	ENGINE MODELS / CODES (rated power, in hp)									
8.9		L9N 320 / 4897;FR95631 (320), L9N 300 / 4897;FR95926 (300), L9N 280 / 4897;FR95927 (280)									
8.9	L9N 260/ 4897;FR95928 (260), L9N 250 / 4897;FR95929 (258)										

* =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=kilowatt; hr=hour;

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

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.).

in g/bhp-hr	NMHC		NOx		NMHC+NOx		со		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	0.01	0.000	0.01	0.004	*	*	1.5	0.3	0.002	0.000	**	
NTE	0.21		0	.03			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: 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 1.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 September 1, 2017.

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				
	KCEXH05	40LBL-001	TRACTOR / VOCATIONAL				
In	C	O ₂	CH				
g/bhp-hr	FTP	SET	CH ₄	N ₂ O .			
STD	576	487	0.10	0.10			
FCL	476	418	•	*			
FEL	490	431	0.65	0.10			
CERT	465	414	0.56	0.02			

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

CUMMINS INC.



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 four deficiencies. The listed engine models are approved subject to the manufacturer paying a fine of \$50 per engine for the third and fourth 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 \$5000 per engine 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

and Holldhaut Chief

Emissions Compliance, Automotive Regulations and Science Division

day of October 2018.

E0#: A-021-0699

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		9.Emission Control
KCEXH0540LBL	4897;FR95631	L9N 320	320@2100	N/A	N/A	1000@1300	N/A	N/A	TELTC,CAC,ECM.
KCEXH0540LBL	4897;FR95926	L9N 300	300@2100	N/A	N/A	860@1300	N/A	N/A	TBI, TC, CAC, ECM.
KCEXH0540LBL	4897;FR95927	L9N 280	280@2200	N/A	N/A	900@1300	N/A	N/A	TBI,TC, CAC,ECM,
KCEXH0540LBL	4897;FR95928	L9N 260	260@2200	N/A	N/A	660@1300	N/A	N/A	TBLZC,CAC,ECM,
KCEXH0540LBL	4897;FR95929	L9N 250	258@2200	N/A	N/A	730@1300	N/A	N/A	BI,TC,CAC,ECM

TBI, TC, CAC, ECM, EGR, TWC, HO25