CUMMINS INC.



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 YEAR	ENGINE FAMILY		ENGINE SIZES (L)	FUEL TYPE ¹	STANDARDS & TEST PROCEDURE	SERVICE CLASS ²	ECS & SPECIAL FEATURES 3	DIAGNOSTIC 6					
2023	PCEXH0729	XDA	11.9	CNG/LNG	Diesel	HHDD-UB	TBI, TC, CAC, ECM, EGR- C, TWC, HO2S(2)	OBD(P)					
	Y ENGINE'S IDLE INS CONTROL 5			ADDI	ADDITIONAL IDLE EMISSIONS CONTROL 5								
Exempt N/A													
ENGINE (ENGINE (L) ENGINE MODELS / CODES (rated power, in hp)												
11.9	See attachment for engine models and ratings												
L=liter; hp: CNG/LN L/M/H F ECS=er	* =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; 1 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; 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; DFF=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 charger; C module; EI	e body fuel injection; AC =charge air coole M =engine modificatio	SFI/MFI= r; EGR / E n; AMOX	sequential/multi port EGR-C=exhaust gas =Ammonia Oxidatior	fuel injection; DGI =direct gasoline recirculation / cooled EGR; PAIR / n Catalyst; NOXS =NOx sensor; 2	e injection; GCARE /AIR=pulsed/secon (prefix)=parallel; (s=gaseous carbo dary air injection 2) (suffix)=in se	uretor; IDI/DDI=indirect/direct diesel injection; 7 p; SPL=smoke puff limiter; ECM/PCM=engine/pries;	C/SC=turbo/super powertrain control					
13 CCR 19	56.8(a)(6)(D); Exem	pt=exemp	oted per 13 CCR 195	6.8(a)(6)(B) or for CNG/LNG fuel s	systems; N/A=not a	applicable (e.g.,	,.	native method (per					
° EMD=e	engine manufacturer	diagnostic	system (13 CCR 19	71); OBD (F) / (P) / (\$) =full / partial	7 partial with a fine	/ on-board diag	nostic;);						

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. "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	NMHC		N	Ox	NMHC+NOx		С	0	P	М	нсно	
g/bhp-hr	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	0.004	0.000	0.01	0.000	*	*	1.5	0.3	0.01	0.000	*	*
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 December 12, 2002, as last amended April 18, 2019.

In	С	O ₂	O II	N 0			
g/bhp-hr	FTP	SET	CH₄	N₂O			
STD	513	447	0.10	0.10			
FCL	516	427	*	*			
FEL	531	440	0.50	0.10			
CERT	502	414	0.19	0.01			

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: 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 April 18, 2019, shall be provided with an approved "Certified Clean Idle" label that shall be affixed to the vehicle into which the engine is installed.

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 on this 20th day of September 2022.

Robin U. Lang, Chief

Emissions Certification and Compliance Division

Attachment: Engine Models EO #: A-021-0758 Family: PCEXH0729XDA Attachment Last Revised: 8/31/2022

					Displacement -		Peak Power -	Peak Power -	Peak Power -	Peak Power - Fu	el	Peak Torque -	Peak Torque -	Peak Torque -	Peak Torque -				
Model	Code	Trim	Config	Displacement	Units	Peak Power	Units	Speed (rpm)	Fueling	Units	Peak Torque	Units	Speed (rpm)	Fuel	Fuel Units	OBD	GHG	Special	Notes
ISX12N 400CC	XH9	N/A	16	11.9	Liters	400	horsepower	1800	66	kg/hr	1450	lb-ft	1200	50.9	kg/hr	Partial	Vocational	N/A	Urban Bus Rating
ISX12N 400	XH1	N/A	16	11.9	Liters	400	horsepower	1800	66	kg/hr	1450	lb-ft	1200	50.9	kg/hr	Partial	Tractor	N/A	N/A
ISX12N 400	XH2	N/A	16	11.9	Liters	400	horsepower	1800	66	kg/hr	1450	lb-ft	1200	50.9	kg/hr	Partial	Tractor	N/A	N/A
ISX12N 385	XH3	N/A	16	11.9	Liters	385	horsepower	1700	62.4	kg/hr	1350	lb-ft	1200	47.4	kg/hr	Partial	Tractor	N/A	N/A
ISX12N 385	XH4	N/A	16	11.9	Liters	385	horsepower	1700	62.4	kg/hr	1350	lb-ft	1200	47.4	kg/hr	Partial	Tractor	N/A	N/A
ISX12N 350	XH5	N/A	16	11.9	Liters	350	horsepower	1700	56.6	kg/hr	1350	lb-ft	1200	47.4	kg/hr	Partial	Tractor	N/A	N/A
ISX12N 350	XH6	N/A	16	11.9	Liters	350	horsepower	1700	56.6	kg/hr	1450	lb-ft	1200	50.9	kg/hr	Partial	Tractor	N/A	N/A
ISX12N 330	XH7	N/A	16	11.9	Liters	330	horsepower	2100	58	kg/hr	1250	lb-ft	1200	44.1	kg/hr	Partial	Tractor	N/A	N/A
ISX12N 320	XH8	N/A	16	11.9	Liters	320	horsepower	1700	51.8	kg/hr	1150	lb-ft	1200	40.4	kg/hr	Partial	Tractor	N/A	N/A
ISX12N 400	XH1	N/A	16	11.9	Liters	400	horsepower	1800	66	kg/hr	1450	lb-ft	1200	50.9	kg/hr	Partial	Vocational	N/A	N/A
ISX12N 400	XH2	N/A	16	11.9	Liters	400	horsepower	1800	66	kg/hr	1450	lb-ft	1200	50.9	kg/hr	Partial	Vocational	N/A	N/A
ISX12N 385	XH3	N/A	16	11.9	Liters	385	horsepower	1700	62.4	kg/hr	1350	lb-ft	1200	47.4	kg/hr	Partial	Vocational	N/A	N/A
ISX12N 385	XH4	N/A	16	11.9	Liters	385	horsepower	1700	62.4	kg/hr	1350	lb-ft	1200	47.4	kg/hr	Partial	Vocational	N/A	N/A
ISX12N 350	XH5	N/A	16	11.9	Liters	350	horsepower	1700	56.6	kg/hr	1350	lb-ft	1200	47.4	kg/hr	Partial	Vocational	N/A	N/A
ISX12N 350	XH6	N/A	16	11.9	Liters	350	horsepower	1700	56.6	kg/hr	1450	lb-ft	1200	50.9	kg/hr	Partial	Vocational	N/A	N/A
ISX12N 330	XH7	N/A	16	11.9	Liters	330	horsepower	2100	58	kg/hr	1250	lb-ft	1200	44.1	kg/hr	Partial	Vocational	N/A	N/A
ISX12N 320	XH8	N/A	16	11.9	Liters	320	horsepower	1700	51.8	kg/hr	1150	lb-ft	1200	40.4	kg/hr	Partial	Vocational	N/A	N/A