CALIFORNIA AIR RESOURCES BOARD	FORD MOTOR COMPANY	**EXECUTIVE ORDER A-010-2456-1** **New On-Road Heavy-Duty Motor Vehicles** **Page 1 of 1**

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 following on-road motor vehicles with a manufacturer's GVWR over 14000 pounds are certified as described below. Production vehicles shall be in all material respects the same as those for which certification is granted.

ENGINE DESCRIPTION								
MANUFACTURER	**EXECUTIVE ORDER**	**MODEL YEAR**	**ENGINE FAMILY**	**ENGINE SIZES (L)**	**FUEL TYPE [1]**	**STANDARDS & TEST PROCEDURE**	**INTENDED SERVICE CLASS [2]**	**ECS & SPECIAL FEATURES [3]**
Ford Motor Company	A-010-2455-1	2023	PFMXE07.3BW7	7.3	Gasoline	Otto	HDO	TWC, SFI, HO2S, WR-HO2S

Gasoline, LPG or Alcohol Vehicles Only			VEHICLE DESCRIPTION			
EVAPORATIVE		**FUEL TANK CAPACITY (gallons)**	**VEHICLE MODEL YEAR**	**VEHICLE MAKE & MODELS**	**ENGINE (L)**	**ENGINE MODELS / CODES (rated power, in hp)**
FAMILY	**UL (K)**					
See attachment for evaporative families, engine models and ratings						
*	*	*	*	*	*	*

***** =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; **K**=1000 miles; **hp**=horsepower; **kw**=kilowatt;

[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;

[2] **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; **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); **WR-HO2S**=wide range oxygen sensor; **TBI**=throttle body fuel injection; **SFI/MFI**=sequential/multi port fuel injection; **DGI**=direct gasoline injection; **GCARB**=gaseous carburetor; **IDI/DDI**=indirect/direct diesel injection; **TC/SC**=turbo/ 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**=engine/powertrain control module; **EM**=engine modification; **AMOX**=Ammonia Oxidation Catalyst; **NOXS**=NOx sensor; **2 (prefix)**=parallel; **(2) (suffix)**=in series;

Following are: 1) the FTP exhaust emission standards or family emission limit(s) as applicable under 13 CCR 1956.1 (urban bus) or 13 CCR 1956.8 (other than urban bus); 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, in g/bhp-hr, 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 1956.1 or 13 CCR 1956.8 are in parentheses.) [4]

	NMHC		NOx		NMHC+NOx		CO		PM		HCHO	
	FTP	SET	FTP	SET	FTP	SET	FTP	SET	FTP	SET	FTP	SET
STD	0.14	*	0.20	*	*	*	14.4	*	0.01	*	0.01	*
FEL	*	*	0.13	*	*	*	*	*	*	*	*	*
CERT	0.03	*	0.04	*	*	*	2.9	*	0.002	*	0.001	*
NTE	*		*		*		*		*		*	

[4] **g/bhp-hr**=grams per brake horsepower-hour; **FTP**=Federal Test Procedure; **SET**=supplemental emissions testing Steady-State Cycle; **NTE**=Not-to-Exceed emission limit; **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: For the listed vehicle models the manufacturer has submitted the materials to demonstrate certification compliance with 13 CCR 1965 (emission control labels), 13 CCR 1976(b)(1)(F) {evaporative emission standards}, 13 CCR 1978 (vehicle refueling emissions standards; complete vehicles), 13 CCR 2035 et seq. (emission control warranty), and 13 CCR 2235 [fill pipes and openings of motor vehicle fuel tanks].

Vehicles 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.

This Executive Order hereby supersedes and cancels Executive Order A-010-2456 dated December 29, 2022.

Executed on this 6th day of April 2023.

Robin U. Lang

Robin U. Lang, Chief
Emissions Certification and Compliance Division

Attachment: Vehicle Models and Evaporative System **EO #:** A-010-2456-1 **Date Applicable:** 12/20/2022

Evap Family Name	Fuel Tank Capacity (gallons)	Vehicle Model Year	Vehicle Make	Vehicle Model	Engine Model	Engine Code (rated power, in hp)	ECSV	Notes
PFMXF0210GCK	40.0	2023	Ford	E-Series	E-Series	PTE4J0ND (325)	Fuel Cap, Vent Valve, Fuel tank, pressure sensor, Carbon canister, canister purge valve, AIS trap	150K UL, Incomplete Vehicle
PFMXF0210GCK	40.0	2023	Ford	E-Series	E-Series	PTE4J0NY (325)	Fuel Cap, Vent Valve, Fuel tank, pressure sensor, Carbon canister, canister purge valve, AIS trap	150K UL, Incomplete Vehicle
PFMXF0360NGK	55.0	2023	Ford	E-Series	E-Series	PTE4J0NE (325)	Fuel Cap, Vent Valve, Fuel tank, pressure sensor, Carbon canister, canister purge valve, AIS trap	150K UL, Incomplete Vehicle
PFMXF0210GCV	47.2	2023	Ford	Medium Duty	Medium Duty	PTBCJ0NL (335)	Fuel Cap, Vent Valve, Fuel tank, pressure sensor, Carbon canister, canister purge valve, AIS trap	150K UL, Incomplete Vehicle
PFMXF0360NGV	58.0	2023	Ford	Medium Duty	Medium Duty	PTBCJ0NN (335)	Fuel Cap, Vent Valve, Fuel tank, pressure sensor, Carbon canister, canister purge valve, AIS trap	150K UL, Incomplete Vehicle
PFMXF0360NGV	59.3	2023	Ford	Medium Duty	Medium Duty	PTBCJ0NM (335)	Fuel Cap, Vent Valve, Fuel tank, pressure sensor, Carbon canister, canister purge valve, AIS trap	150K UL, Incomplete Vehicle
PFMXF0210GCK	40.0	2023	Ford	Commercial Stripped Chassis	Commercial Stripped Chassis	PTY3J0NV (335)	Fuel Cap, Vent Valve, Fuel tank, pressure sensor, Carbon canister, canister purge valve, AIS trap	150K UL, Incomplete Vehicle
PFMXF0365NGK	81.5	2023	Ford	Motorhome Stripped Chassis	Motorhome Stripped Chassis	PTY3J0NW (335)	Fuel Cap, Vent Valve, Fuel tank, pressure sensor, Carbon canister, canister purge valve, AIS trap	150K UL, Incomplete Vehicle
PFMXF0210GDK	40.0	2023	Ford	Super Duty	Super Duty	PTFHJ0NJ (335)	Fuel Cap, Vent Valve, Fuel tank, pressure sensor, Carbon canister, canister purge valve, AIS trap	150K UL, Incomplete Vehicle
PFMXF0210GDK	26.6	2023	Ford	Super Duty	Super Duty	PTFHJ0NK (335)	Fuel Cap, Vent Valve, Fuel tank, pressure sensor, Carbon canister, canister purge valve, AIS trap	150K UL, Incomplete Vehicle