California Environmental Protection Agency ❷ Air Resources Board

IMPCO TECHNOLOGIES, INC.

EXECUTIVE ORDER A-328-0062

New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles Page 1 of 3

Pursuant to the authority vested in the Air Resources Board by Health and Safety Code (HSC), Div. 26, Part 5, Chap. 2; and pursuant to the authority vested in the undersigned by HSC Sections 39515 & 39516 and Executive Order G-02-003;

IT IS ORDERED AND RESOLVED:

That the following exhaust and evaporative emission control systems produced by the manufacturer are certified as described below. Production vehicles shall be in all material respects the same as those for which certification is granted.

MODEL	TEST GROUP	VEHICLE TYPE	EXHAUST EMISSION STANDARD CATEGORY	NDARD CATEGORY USEFUL LIF		FUEL TYPE
			"LEV II" Super Ultra Low Emission Vehicle (LEV II			Compressed Natural Gas
2014 EZ9XT06.0CDA	EZ9XT05.0CDA	MDV: 8501-10000# GVW	SULEV)	120K	*	0011,p,00002 110.010
No.	ECS &	SPECIAL FEATURES	EVAPORATIVE FA	MILY (EVAF)		DISPLACEMENT (L)
1	2TWC, TWC	, 2HO2S(2), SFI, OBD(P)	EZ9XR0000	OCDA		
*	*		*			6
*		*	*			

See the Attachment for Vehicle Models, Evaporative Family, Engine Displacement, Emission Control Systems, Phase-In Standards, OBD Compliance, Emission Standards and Certification Levels, and Abbreviations.

BE IT FURTHER RESOLVED:

That the exhaust and the evaporative emission standards and the certification emission levels for the listed vehicles are as listed on the Attachment. Compliance with the 50° Fahrenheit testing requirement may have been met based on the manufacturer's submitted compliance plan in lieu of testing. Any debit in the manufacturer's "NMOG or NMOG+NOx, as applicable, Fleet Average" (PC or LDT or MDPV) or "Vehicle Equivalent Credit" (MDV) compliance plan shall be equalized as required.

BE IT FURTHER RESOLVED:

That for the listed vehicle models, the manufacturer has attested to compliance with Title 13, California Code of Regulations, (13 CCR) Sections 1965 [emission control labels], 1968.2 [on-board diagnostic, full or partial compliance], 2035 et seq. [emission control warranty], 2235 [fuel tank fill pipes and openings] (gasoline and alcohol fueled vehicles only), and "High-Altitude Requirements" and "Inspection and Maintenance Emission Standards" (California Exhaust Emission Standards and Test Procedures for 2001 and Subsequent Model PC, LDT and MDV).

BE IT FURTHER RESOLVED:

The test group listed in this Executive Order is certified conditionally on the manufacturer providing data to demonstrate compliance with California's greenhouse gas fleet average emission standard (CA GHG Standard) specified in Title 13, California Code of Regulations, (13 CCR) Section 1961.1 and the incorporated California Exhaust Emission Standards and Test Procedures for 2001 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles, amended March 29, 2010 (CA Test Procedures). The manufacturer has elected, under 13 CCR Section 1961.1(a)(1)(A)(ii) and under Section E.2.5.1(ii) of the CA Test Procedures, to demonstrate compliance with the CA GHG Standard by demonstrating compliance with the National greenhouse gas program (National GHG Program). Therefore, the test group listed in this Executive Order is certified conditionally further on the manufacturer complying with the requirements specified in said provisions in 13 CCR, and Sections E.2.5.1(ii) and H.4.5(b) and H.4.5(c) of the CA Test Procedures (among other things, concerning data and information submission, timing, and format as specified by the Executive Officer). Failure to comply with the certification requirements to demonstrate compliance with CA GHG Standard by demonstrating compliance with the National GHG Program under said provisions in 13 CCR and CA Test Procedures may be cause for the Executive Officer to revoke the Executive Order. Vehicles in the revoked Executive Order shall be deemed uncertified and subject to penalties authorized under California law. Notwithstanding the requirement herein, a manufacturer that becomes, after MY2009, a large-volume manufacturer, as defined in 13 CCR Section 1900, is not required to comply with the CA GHG Standard until the beginning of the fourth model-year from becoming a large-volume manufacturer. Additionally, notwithstanding the requirement herein, a small-volume manufacturer, independent low-volume manufacturer, or intermediate volume-manufacturer, as defined in 13 CCR Section 1900, is not required to comply with CA GHG Standard during model-years (MY) 2012 through 2015.

Vehicles certified under this Executive Order shall 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

Fit day of July 2013.

Erik White, Chief Mobile Source Operations Division

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ATTACHMENT

EXHAUST AND EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

(For bi-, dual- or flexible-fueled vehicles, the STD and CERT in parentheses are those applicable to testing on gasoline test fuel.)

NMOG I AVERAG		NMOG (CH4 R	D RAF=*	NMOG or	CH4=methane; NMOG=non-CH4 organic gas, NMHC=non-CH4 hydrocarbon; CO=carbon monoxide; NOx=oxides of nitro; HCHO=formaldehyde; PM=particulate matter; RAF=reactivity adjustment factor; 2/3 D [g/test]=2/3 day diurnal+hot-soak; RL [g/mi]=running loss; ORVR [g/gallon dispensed]=on-board refueling vapor recovery; g=gran; mg=milligram							_			
CERT	STD	NMOG	NMHC	NMHC STD	hot-soak; I mi=mile; K	RL [g/mi]≖rui (=1000 mile:	nning loss; (s: F=dearee:	ORVR (g/gall s Fahrenheit	lon dispens · SFTP≍s:≀	sed]=on-boa oplemental t	rd refueli federal te	ng vapor red ist procedure	covery; g =gr	am; mg=milli	gram
*	*	CERT	CERT	[g/mi]	CO	[g/mi]	NO	x [g/mi]		HO [mg/m		PM [g/		Hwy NO	Ox [g/ml]
		[g/mi]	[g/mi]	13	CERT	STD	CERT	STD	CER	T ST	D	CERT	STD	CERT	STD
3 3 7 7 3	@ 50K	*	*	*	*	*	*	*	*	*		*	*	*	*
	@ UL	0.009	*	0.100	2.1	3.2	0.02	0.1	2.0) 8		*	0.06	0.00	0.2
- 2 × 4 @	50°F & 4K	*	*	*	*	*	*	*	*	*		*	*	*	*
CO [g				NMHC+No (comp		CO [i		NMHC+ [g/mi] [l		CO [g			C+NOx [SC03]		[g/mi] 203]
@ 20°F 8	4 50K		44	CERT	STD	CERT	STD	CERT	ern	CERT	CTD.	CERT	CTD	ocnr	272

CO [g/mi]			osite)		g/mij posite)		C+NOX [US06]	CO I	[g/mi] 306]		:+NOx [SC03]	CO [[g/mi] :03]
@ 20°F & 50K		CERT	STD	CERT	מדצ	CERT	STD	CERT	STD	CERT	STD	CERT	STD
CERT *	SFTP @ * miles	*	*	*	*	*	*	*	*	*	*	*	*
STD *	SFTP@* miles	*	*	*	*	*	*	*	*	*	*	*	•

Evaporative Family	3-Days Diurna (grams/te	al + Hot Soak est) @ UL	2-Days Diurnal + Hot Soak (grams/test) @ UL		Running Loss (grams/mile) @ UL		On-Board Refueling Vapor Recovery (grams/gallon) @ UL		
	CERT	STD	CERT	STD	CERT	STD	CERT	STD	
EZ9XR0000CDA	*	*	*	*	*	*	*	*	
*	*	*	*	*	* .	*	*	*	
*	*	*	*	*	+	*	*	*	
*	*	*	*	*	*	*	*	*	

* =not applicable; UL=useful life; PC=passenger car; LDT=light-duty truck; LDT1=LDT<6000#GVWR,0-3750#LVW; LDT2=LDT<6000#GVWR,3751-5750#LVW; LDT3=LDT 6001-8500#GVWR,3751-5750#LVW; LDT3=LDT 6001-8500#GVWR,3751-5750#LVW; LDT4=LDT<6001-8500#GVWR,3751-5750#LVW; LDT4=LDT<6001-8500#GVWR,3751-5750#LVW; LDT4=LDT<6000#GVWR,3751-5750#LVW; LDT4=LDT<6000#GVWR,3751-5750#LVW; MDV=medium-duty vehicle; MDV4=MDV 8501-1000#GVWR; MDV5=MDV 10001-14000#GVWR; ECS= emission control system; STD= standard; CERT= certification; LVW=loaded vehicle weight; ALVW=adjusted LVW; LEV=low emission vehicle; ULEV=ultra LEV; SULEV=super ULEV; TWC/OC=3-way/oxidizing catalyst; ADSTWC=adsorbing TWC; WU=warm-up catalyst; NAC=NOx adsorption catalyst; SCR-U or SCRC/SCR-N or SCRC-NH3= selective catalytic reduction-urea/ammonia; NH3OC=ammonia oxidation catalyst; CTOX/PTOX= continuous/periodic trap oxidizer; DPF = Diesel Particulate Filter (active); HO2S/O2S=heated/oxygen sensor; WR-HO2S or AFS=Wide range/linear/heated air-fuel ratio sensor; NOXS= NOX sensor; RDQS=reductant quality sensor; NH3S = Ammonia sensor; EGR=exhaust gas recirculation; EGRC=EGR cooler; AIR/AIRE=secondary air injection (belt driven)/(electric driven); PAIR=pulsed AIR; SFI/MFI= sequential/ multiport fuel injection; TC/SC= turbo/super charger; CAC=charge air cooler; OBD (F)/(P)(B)=full/partial/both on-board diagnostic; DOR=direct ozone reducing; HCT=Hydrocarbon Trap; BCAN=bleed carbon canister; prefix 2=parallel; (2) suffix=series; CNG/LNG= compressed/liquefied natural gas; LPG=liquefied petroleum gas; E85="85%" Ethanol (*15%'gasoline) Fuel;

2014 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	EVAPORATIVE FAMILY	ECS NO.	ENGINE SIZE (L)	VEHICLE	SPECIAL FEATURES	OBD
IMPCO	G2500 EXPRESS 2WD CARGO (engine code: LC8 anly)	EZ9XR0000CDA	1	6	MDV4	*	Partia
IMPCO	G2500 EXPRESS 2WD PASS (engine code: LC8 only)	EZ9XR0000CDA	1	6	MDV4	*	Partia
IMPCO	G2500 EXPRESS 2WD PASS MDPV (engine code: LC8 only)	EZ9XR0000CDA	1	6	MDV4	*	Partia
IMPCO	G2500 EXPRESS CONV 2WD CARGO MDPV (engine code: LC8 only)	EZ9XR0000CDA	1	6	MDV4	*	Partia
IMPCO	G2500 SAVANA 2WD CARGO (engine code: LC8 only)	EZ9XR0000CDA	1	6	MDV4	*	Partia
IMPCO	G2500 SAVANA 2WD PASS (engine code: LC8 only)	EZ9XR0000CDA	1	6	MDV4	*	Partia
IMPCO	G2500 SAVANA 2WD PASS MDPV (engine code: LC8 only)	EZ9XR0000CDA	1	6	MDV4	*	Partia
IMPCO	G2500 SAVANA CONV 2WD CARGO MDPV (engine code: LC8 only)	EZ9XR0000CDA	1	6	MDV4	*	Partia
IMPCO	G3500 EXPRESS 2WD CARGO (engine code: LC8 only)	EZ9XR0000CDA	1	6	MDV4	*	Partia
IMPCO	G3500 EXPRESS 2WD PASS (engine code: LC8 only)	EZ9XR0000CDA	1	6	MDV4	*	Partia
IMPCO	G3500 EXPRESS 2WD PASS MDPV (engine code: LC8 only)	EZ9XR0000CDA	1	6	MDV4	*	Partia

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IMPCO	G3500 EXPRESS CONV 2WD CARGO (engine code: LC8 only)	EZ9XR0000CDA	1	6	MDV4	*	Partia
IMPCO	G3500 SAVANA 2WD CARGO (engine code: LC8 only)	EZ9XR0000CDA	1	6	MDV4	*	Partia
IMPCO	G3500 SAVANA 2WD PASS (engine code: LC8 only)	EZ9XR0000CDA	1	6	MDV4	*	Partia
IMPCO	G3500 SAVANA 2WD PASS MDPV (engine code: LC8 only)	EZ9XR0000CDA	1 .	6	MDV4	*	Partia
IMPCO	G3500 SAVANA CONV 2WD CARGO (engine code: LC8 only)	EZ9XR0000CDA	1	6	MDV4	*	Parti

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