⊘ Air Resources Board

IMPCO TECHNOLOGIES, INC. Executive Order: A-328-0077

New Passenger Cars, Light-Duty Trucks and

Medium-Duty Vehicles

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Pursuant to the authority vested in the Air Resources Board by Health and Safety Code (HSC), Division 26, Part 5, Chapter 2; and pursuant to the authority vested in the undersigned by HSC Sections 39515 and 39516 and Executive Order G-14-012;

IT IS ORDERED AND RESOLVED: 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.

TEST GROUP INFORMATION												
MODEL YEAR	TEST GROUP			VEHICLE CLASS(ES)			FUEL CA	ATEGORY	FUEL TYPE			
2016	GZ9X	D06.0DCA		MDPV, MDV4				SINGLE FUEL	COMPRESSED NATURAL GAS			
US	SEFUL L	FE (miles)		VEHICLE EMISSION CATE			GORY	INTERIM / IN	TERMEDIA	ERMEDIATE IN-USE STD		
EXH/ORVR EVAP				F1	ГР	S	FTP	FTP		SFTP		
1200	120000 *			LEV2	SULEV		*	*	* -			
SPECIAL FEATURES & EXHAUST EMISSION CONTROL SYSTEMS							OBD ST	ATUS	ENGINE DISPLACEMENT (L)			
1		2TWC, TW	С, 2НС	2S(2), SE	FI		FULL	ALL MODELS				
*			*				PARTIAL	*	6.0			
*	* PARTIAL WITH * FINES											
EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION												
EVAP	EVAP / ORVR FAMILY EVAPORATIVE STD CATEGO						EVAP EMIS VEHICLE		SPECIAL FEATURES			
GZ9XR0000DCA				LEV	V 2		*		*			
EMISSION CREDIT INFORMATION												
BASEL	ALL	OWANCE F	OR TE		TZEV	_	G CREDIT FO ZEV ZERO-EV		REDIT FOR OR	OPTIONAL EXH. STD FOR WORK TRUCKS		
	* * *			*		N			И			
NMOG AND FLEET AVERAGE INFORMATION												
NMOG R	RAF CH	RAF	P NMO	DG/NMHC TIO HCHO/NMHC		HC RATIO	PC+LDT	X FLEET STD (0-3750 LVW) g/mi)	LDT (3	NOX FLEET STD 751 LVW-8500 + MDPV (g/mi)		
*		*	1.	1.15 0.01			(0.160	0.160			

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.

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BE IT FURTHER RESOLVED:

The exhaust and 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+NOx and greenhouse gas Fleet Average (PC or LDT or MDPV) or "Vehicle Equivalent Credit" (MDV) compliance plan shall be equalized as required.

BE IT FURTHER RESOLVED:

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 2015 and Subsequent Model Criteria Pollutant Exhaust Emission Standards and Test Procedures and 2017 and Subsequent Model Greenhouse Gas Exhaust Emission Standards and Test Procedures for PC, LDT and MDV).

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

_day of October 2015.

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division

OB Air Resources Board

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						AT	TAC	HMEN	T								
	EXH	-	AND E	-	-	The same of the sa											
	FUI	EXHAUS		: metha oxide; N stment t /R [g H(ne; NMC lOx: oxid actor; 2I c/gallon	G: non-Cles of nitro DHS/3DH dispensed	H4 orga ogen; H0 S [g HC/ d]: on-bo	nic gas; H CHO: form test]: 2/3 c	C: hyd aldehy lays di ng vap	rocarb de; PN urnal+ or rec	on; NMH l: particul hot-soak; overy; g:	C: no late n RL [gram	n-CH4 I natter; R g HC/mi ; mg: mi	HC; CO: ca AF: reactive J: running I lligram; mi:	vity oss;		
				NMOG (g/mi)		CO (g/mi)			NOx (g/mi)		HCH (mg/r				PM (g/mi)		
				RT	STD	CERT	STD	CER	Т	STD	CERT		STD	CERT	STD		
TP@50	P@50K		* *		* .	*	*	*		*	*	*		*	*		
FTP@U	L CN	G-CA	RB 0.0	145	0.100	1.07	3.2	0.01	.3	0.1	0.0			*	0.06		
50°F @4	IK	*		*	*	*	*	*		*	*	1	*				
				FI	JEL TYP	E				Ox (g				CO (g/mi			
				TOLETTI					CERT		STD		CER	Т	STD		
HWFET	@ 50K			*				*		*							
HWFE	T@UL			CNG-CARB					0.054 0.2		0.0						
20°F (@ 50K			*									. *		*		
			SFT	PEXHA	UST EN	ISSION S	STANDA	RDS AND	CERT	TIFICA	TION LE	VEL	S				
						US06	S06		SC03				COMPOSITI				
4-2-4-	FUEL 1	TYPE		NMHC+ (g/m		CO (g/mi)			NMHC+NOx (g/mi)		CO (g/mi)			CO (g/mi)	PM (mg/m		
0.414	_	* CE		RT *				ALL I	*		*	*					
@ 4K	*			*	- I	*	Y		*		*						
		CE		CER		RT *		* *			*		* *		*	*	*
@ UL	*		STD	*		*	*		*		*		*	*	*		
			BIN										*				
		WH	IOLE VEH	ICLE E								TIOI	N LEVE	LS			
					W	HOLE VE	HICLE	EVAPORA	TIVE	TESTI	NG		-	1 (
EVAPORATIVE FUE		UEL TYP	TYPE 3DHS (g			/test) @ UL		2DHS (g/test)		@ UL		RL (g/m		i) @ UL			
				CE	RT	TD FEL		CERT	S	TD	FEL	CERT		RT	STD		
GZ 9XR	0000DC	A	*		k .	*	*	*		*	*	A.	*		*		
0	RVR / F	UEL	ONLY / CA	NISTE	RBLEE	EVAPO	RATIVE	EMISSIO	N STA	NDAF	RDS AND	CER	RTIFICA	TION LEV	ELS		
EVAPORATIVE FAMILY		E	ORVR (g/	@ UL		FUEL TYPE 31		HS RIG TEST		2DHS RIC		EST	BLEED C	BLEED CANISTER			
		-	IEL TYPE	VDE CERT STR				FUEL	(g/test) @ UL		(g/tes			TEST (g/to	est) @ 4		
		-	JEL TYPE	CERT	STD *		*		ERT STD		*	*		*	*		

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: not applicable; #: pounds; UL: useful life; PC: passenger car; LDT: light-duty truck; LDT1: LDT<6000#GVWR,0-3750#LVW; LDT2: DT<6000#GVWR,3751-5750#LVW; LDT3: LDT 6001-8500#GVWR,3751-5750#ALVW; LDT4: LDT 6001-8500#GVWR,5751-8500#ALVW; MDV: medium-duty vehicle; MDV4: MDV 8501-10000#GVWR; MDV5: MDV 10001-14000#GVWR; MDPV: mediumduty passenger vehicle; HDV: heavy-duty vehicle; ECS: emission control system; CERT: certification; STD: standard; FEL. family emission limit; GVWR: gross vehicle weight rating; LVW: loaded vehicle weight; ALVW: adjusted LVW; LEV: low emission vehicle: ULEV: ultra LEV: SULEV: super ULEV: ZEV: zero-emission vehicle; PZEV: partial ZEV; AT PZEV: advanced technology PZEV; TZEV: transitional ZEV; TWC/OC: 3-way/oxidizing catalyst; ADSTWC: adsorbing TWC; HAC: HC adsorbing catalyst; 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): GPF: PM filter for spark-ignited engine; HO2S/O2S: heated/oxygen sensor; WR-HO2S or AFS: wide range/linear/heated air-fuel ratio sensor; NOXS: NOx sensor; PMS: PM 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; DFI/IFI: direct/indirect fuel injection; TC/SC: turbo/super charger; CAC: charge air cooler; F/P/\$: full/partial/partial with fines 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; E10: "10%" ethanol ("90%"gasoline) fuel; A: automatic (with lockup); M: manual transmission, SA: semi-automatic transmission; CV: continuously variable transmission; SCV: selectable continuously variable transmission; AM: automated manual transmission; AMS: automated manual-selectable transmission; OT: other transmission

	2016 MODEL YEAR: VEHICLE MODELS INFORMATION										
MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH	OBD	PZEV TYPE			
IMPCO	CHEVROLET G2500 EXPRESS CARGO 2WD	MDV4	6.0	A6	GZ9XR0000DCA	1	F	*			
IMPCO	CHEVROLET G3500 EXPRESS CARGO 2WD	MDV4	6.0	A6	GZ9XR0000DCA	1	F	*			
IMPCO	CHEVY G2500 EXPRESS PASS	MDPV	6.0	A6	GZ9XR0000DCA	1	F	*			
IMPCO	CHEVY G3500 EXPRESS PASS	MDPV	6.0	A 6	GZ9XR0000DCA	1	F	*			
IMPCO	GMC G2500 SAVANA CARGO 2WD	MDV4	6.0	A 6	GZ9XR0000DCA	1	F	*			
IMPCO	GMC G2500 SAVANA PASS	MDPV	6.0	A 6	GZ9XR0000DCA	1	F	*			
IMPCO	GMC G3500 SAVANA CARGO 2WD	MDV4	6.0	A 6	GZ9XR0000DCA	1	F	*			
IMPCO	GMC G3500 SAVANA PASS	MDPV	6.0	A6	GZ9XR0000DCA	1	F	*			