

Pursuant to the authority vested in the 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-02-003;

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 FAN	ENGINE FAMILY		FUEL TYPE 1	STANDARDS & TEST	SERVICE	ECS & SPECIAL FEATURES 3	DIAGNOSTIC 6				
	ADIOLIAA AEEA		SIZES (L)	0110	PROCEDURE	CLASS	ECM, OC, TBI, TC, CAC, AFS,					
2010	ADICH11.1	EEA	11.1	CNG	Diesel	UB	SCR					
PRIMARY	ENGINE'S IDLE			APPITIONAL IDLE EMISSIONS CONTROL 5								
EMISSIONS CONTROL			ADDITIONAL IDLE EMISSIONS CONTROL									
	Exempt			N/A								
ENGINE ((L)	ENGINE MODELS / CODES (rated power, in hp)										
11.1	See attachment for engine models and codes											
*=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 Federál Regulations, Section 86.abc; L=liter; hp=horsepower; kw=kitowatt; 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; L/M/H HDD=light/medium/heavy heavy-duty diesel; UB=urban bus; HDQ=heavy_duty Otto; 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); TBI=throttle body fuel injection; SFI/MFI=sequential/multi port fuel injection; DGI=direct gasoline injection; GCARB=gaseous carboretor; 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; 2 (prefix)=parallel; (2) (suffix)=in series; 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=intamal combustion auxiliary power system; ALT=alternative method (per 13 CCR 1956.8(a)(6)(B) or for C NG/LNG fuel systems; N/A=not applicable (e.g., Otto engines and vehicles); EMD=engine manufacturer diagnostic system (13 CCR 1971); OBD=on-board diagnostic system (13 CCR 1971.1);												

Following are: 1) the FTP exhaust emission standards, or family emission limit(s) as applicable, under 13 CCR 1956.8; 2) the EURO 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, EURO 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		NOx		NMHC+NOx		CO		PM		нсно	
g/bhp-hr	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO
STD	0.14	0.14	0.20	0.20	*	*	15.5	15.5	0.01	0.01	*	*
FEL	*	*	*	1 (-	*	*	*	*	*	*	*	*
CERT	0.08	0.002	0.16	0 .12	•	*	0.1	0.03	0.001	0.001	*	* .
NTE	0.21			0.30	*		19.4		0.02		*	

g/bhp-hr=grams per brake horsepower-hour; FTP=Federal Test Procedure; EURO=Euro III European Steady-State Cycle, including RMCSET=ram mode cycle 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; (Rev.: 2007-02-26)

BE IT FURTHER RESOLVED: Certification to the FEL(s) listed above, as applicable, is subject to the following terms, limitations and conditions. The FEL(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) and 13 CCR 2035 et seg. (emission control warranty).

BE IT FURTHER RESOLVED: The listed engine models have been conditionally certified using the small volume manufacturer provision such that the manufacturer shall submit proper justification that complies with the use of assigned exhaust emission deterioration factors for certification. The additional required documentation shall be submitted within 90 days of this Executive Order signing date. If the manufacturer fails to provide proper justification within aforementioned period, then this Executive Order is hereby null and void and all engines sold under this Executive Order are hereby deemed as uncertified engines.

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 _____30__ day of June 201

Annette Hebert, Chief

Mobile Source Operations Division

Engine Model Summary Template

			3.BHP@RPM	4.Fuel Rate: mm/stroke @ peak HF	5.Fuel Rate: 9 (lbs/hr) @ peak HP	6.Torque @ RPM	7.Fuel Rate: mm/stroke@peak	8.Fuel Rate:	9.Emission Control	
Engine Family	1.Engine Code	2.Engine Model	(SAE Gross)	(for diesel only)	(for diesels only)	(SEA Gross)	torque		queDevice Per SAE J1930	_
ADICH11.1EEA	EEEBB	GL11K	286@2200		115	904@1260		71 8	=CM, TC, SCR, OC, CAC, SCR, AF	2
ADICH11.1EEA	EEEBC	GL11K	286@2200	Jackster (M. Jackster (M. V. S.). Er (M. Jackster V. & M. S. Er (M. S. V.). Adalbare Street (M. V.).	115	904@1260		71	TC,SCR,OC,	
ADICH11.1EEA	EEEBD	GL11K	286@2200		115	904@1260		71	TC,SCR,OC,	****
ADICH11.1EEA	EEEBE	GL11K	286@2200		115	904@1260		71	TC,SCR,OC,	
ADICH11.1EEA	EEEFF	GL11K	286@2200		115	904@1260		71	TC,SCR,OC,	on have
ADICH11.1EEA	EEEBG	GL11K	286@2200		115	904@1260		71	TC,SCR,OC,	-
ADICH11.1EEA	EEEBH	GL11K	286@2200		115	904@1260		71	TC,SCR,OC,	
ADICH11.1EEA	EEEBI	GL11K	286@2200		115	904@1260		71	TC,SCR,OC,	
ADICH11.1EEA	EEEBJ	GL11K	286@2200		115	904@1260		71	TC,SCR,OC,	(Name)
ADICH11.1EEA	EEEBK	GL11K	286@2200		115	904@1260		71	/ TC,SCR,OC,	-
ADICH11.1EEA	EEEBL	GL11K	286@2200		115	904@1260		71	TC,SCR,OC,	
ADICH11.1EEA	EEEBM	GL11K	286@2200		115	904@1260		71	TC,SCR,OC,	-,
ADICH11.1EEA	EEEBN	GL11K	286@ 2200		115	904@1260		71	TC,SCR,OC,	
ADICH11.1EEA	EEEBO	GL11K	286@2200		115	904@1260		71	TC,SCR,OC,	
ADICH11.1EEA	EEEBP	GL11K	286@2200		115	904@1260		71	TC,SCR,OC,	-
ADICH11.1EEA	EEEBQ	GL11K	286@2200		115	904@1260		71	TC,SCR,OC,	
ADICH11.1EEA	EEEBR	GL11K	286@2200		115	904@1260		71	TC,SCR,OC,	
ADICH11.1EEA	EEEBS	GL11K	286@2200		115	904@1260		71	TC,SCR,OC,	
ADICH11.1EEA	EEEBT	GL11K	286@2200		115	904@1260		71	TC,SCR,OC,	
ADICH11.1EEA	EEEBU	GL11K	286 @220 0		115	904@1260		71	TC,SCR,OC,	
ADICH11.1EEA	EEEBV	GL11K	286@2200		115	904@1260		71	TC,SCR,OC,	
ADICH11.1EEA	EEEBW	GL11K	286@2200		115	904@1260		71	TC,SCR,OC,	~~~
ADICH11.1EEA	EEEBX	GL11K	286@2200		115	904@1260		71	TC,SCR,OC,	
ADICH11.1EEA	EEEBY	GL11K	286@2200	,	115	904@1260		71	TC,SCR,OC,	1
ADICH11.1EEA	EEEBZ	GL11K	286@2200		115	904@1260		71	TC,SCR,OC,	