



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-45-9;

**IT IS ORDERED AND RESOLVED:** That the following engine and emission control systems produced by the manufacturer are certified as described below for use in diesel or incomplete medium-duty vehicles with a manufacturer's gross vehicle weight rating (GVWR) from 8,501 to 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 SIZE (liter)	FUEL TYPE	STANDARDS & TEST PROCEDURE	EMISSION STANDARD CATEGORY
2002	2SZXH08.83AK	8.8	Diesel	Diesel	Low Emission Vehicle (LEV)
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS		ON-BOARD DIAGNOSTIC	ENGINE MODELS / CODES (rated power in horsepower, hp)		
		Partial Compliance			
Direct Diesel Injection, Oxidation Catalytic Converter, Exhaust Gas Recirculation, Turbocharger, Charge Air Cooler, Engine Control Module			8GF1/863AK-1 (300 hp), 8GF1/863AK-2 (300 hp), 8GF1/863AK-3 (300 hp)		

The following are the exhaust emission standards, or family emission limit(s) (FEL) as applicable, and certification levels for this engine family for non-methane hydrocarbons (NMHC) plus oxides of nitrogen (NMHC+NOx), NMHC, carbon monoxide (CO), particulate matter (PM), and formaldehyde (HCHO) in grams per brake horsepower-hour (g/bhp-hr) (Title 13, California Code of Regulations, (13 CCR) Section 1956.8):

* = not applicable	[g/bhp-hr]	NMHC+NOx	NMHC	CO	PM	HCHO
(DIRECT) STANDARD		3.0	*	14.4	0.10	0.050
CORPORATE AVERAGE STANDARD		*	*	*	*	*
FAMILY EMISSION LIMIT (FEL)		*	*	*	*	*
CERTIFICATION LEVEL		2.8	*	0.6	0.09	0.013

**BE IT FURTHER RESOLVED:** That 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:** That the listed engine models have been certified to the optional emission standards and test procedures in 13 CCR Section 1956.8 applicable to diesel or incomplete medium-duty vehicles with a GVWR from 8,501 to 14,000 pounds and, therefore, shall be subject to 13 CCR Section 2139(c) (in-use testing of engines certified for use in diesel or incomplete medium-duty vehicles with a 8,501-14,000 pound GVWR).

**BE IT FURTHER RESOLVED:** That for the listed engine models, the manufacturer has submitted the materials to demonstrate certification compliance with 13 CCR Sections 1965 (emission control labeling), 1968.1 or 1968.1(m)(6.2) (on-board diagnostic systems; full or partial compliance), and 2035 et seq. (emission control system warranty).

Engines 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.

This Executive Order hereby supersedes Executive Order A-020-0200-1 dated May 30, 2001.

Executed at El Monte, California on this 31<sup>st</sup> day of July 2001.

  
R. B. Summerfield, Chief  
Mobile Source Operations Division