Call	ntal Protection	Agency	
	R RESO	URCES	BOARD

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 on-road motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 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	INTENDED SERVICE CLASS	
2002	2SZXH06.64RA	6.6	Diesel		Diesel	Medium-Heavy- Duty	
	SPECIAL FI EMISSION CON	EATURES & TROL SYSTEMS			DELS / CODES n horsepower, hp)	· · · ·	
TC, CAC, DDI, ECM <u>ABBREVIATIONS</u> : OC=oxidizing catalyst TWC=three-way catalyst WU (prefix) =warm-up catalyst O2S=oxygen sensor HO2S=heated O2S TBI=throtile body fuel injection MFI=multiport fuel injection SFI=sequentialMFI DDI/IDI=direct /indirect diesel injection TC/SC=turbo/super charger CAC=charge air cooler EGR=exhaust gas recirculation AIR=secondary air injection PAIR=pulsed AIR SP=smoke puff limiter ECM/PCM=engine /powertrain control module EM=engine modification 2 (prefix)=parallel (2) (suffix)=in series			S TBi=throttie body MFI DDVIDi=direct C=charge air cooler n PAIR=pulsed AIR rol module	8GF1XS / 664RA-1 (300 hp), 8GF1XN / 664RA-2 (210 hp), 8GF1XN / 664RA-3 (210 hp)			

The following are the exhaust emission standards, or family emission limit(s) (FEL) as applicable, and certification levels for this engine family for hydrocarbons (HC) or non-methane hydrocarbons (NMHC), oxides of nitrogen (NOx), or NMHC+NOx, 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 1956.1 (urban bus)) or 1956.8 (other than urban bus)): (The emission standards and certification levels for default operations permitted under 13 CCR Section 1956.1 or 1956.8 are in parentheses.)

* = not applicable [g/bhp-hr]	НС	NMHC	NOx	NMHC+NOx	со	PM	нсно
(DIRECT) STANDARD	1.3	•	4.0	*	15.5	0.10	•
CORPORATE AVERAGE STANDARD	*	*	*	*	*	*	•
FAMILY EMISSION LIMIT (FEL)	*	*	*	*	+	*	*
CERTIFICATION LEVEL	0.2	*	3.7	*	2.7	0.09	*

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 for the listed engine models, the manufacturer has submitted the materials to demonstrate certification compliance with 13 CCR Sections 1965 (emission control labeling), 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-020-0204 dated August 23, 2001.

Executed at El Monte, California on this 20 th day of December 2001.

R. B. Summerfield, Chief Mobile Source Operations Division