California Environmental Protection Agency AIR RESOURCES BOARD	MITSUBISHI FUSO TRUCK AND BUS CORP.	EXECUTIVE ORDER A-361-0013 New Diesel or Incomplete Medium-Duty Vehicles Using Certified Engines

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 following diesel or incomplete medium-duty vehicles (MDV) with a manufacturer's GVWR from 8501 to 14000 pounds are certified as described below. Production engines shall be in all material respects the same as those for which certification is granted.

ENGINE DESCRIPTION								
MODEL YEAR	ENGINE FAMILY	ENGINE MANUFACTURER	EMISSION STD CATEGORY[2]	FUEL TYPE [1]	STANDARDS & TEST PROCEDURE	ENGINES SIZES (L)	ECS & SPECIAL FEATURES [3]	EF OBD
	9MFTH04.9M5B							
2010	EXECUTIVE ORDER A-361-0011	MITSUBISHI FUSO TRUCK AND BUS CORP.	ULEV	Diesel	Diesel	4.9	ECM, EGR, OC, PTOX, TC, CAC, DDI	OBD(F)

Gasoline, LPG, or Alcohol Vehicles Only			VEHICLE DESCRIPTION					
EVAPORATIVE FAMILY	EVAPORATIVE UL (K)	FUEL TANK CAPACITY (gallons)	VEHICLE MODEL YEAR	VEHICLE MAKE & MODELS	VEH. OBD	ENGINE (L)	ENGINE MODELS / CODES (rated power, in hp)	ENG. OBD
*	*	*	2010	Fuso Canter FE83DDZSLSUH, FE83DEZSLSUH	OBD(F)	4.9	4M50-8AT8/4M508AT8-US09 (185)	OBD(F)

Following are: 1) the FTP exhaust emission standards, or family emission limit(s) as applicable, under 13 CCR 1956.1 (urban bus) or 13 CCR 1956.8 (other than urban bus); 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, in g/bhp-hr, 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 1956.1 or 13 CCR 1956.8 are in parentheses.) [4]

	NMHC		NOx		NMHC+NOx		CO		PM		HCHO	
	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO
STD	0.14	0.14	*	*	*	*	15.5	15.5	0.01	0.01	0.050	0.050
FEL	*	*	1.20	1.20	1.2	1.2	*	*	*	*	*	*
CERT	0.03	0.03	1.08	1.16	1.1	1.2	0.1	0.00	0.01	0.01	0.005	0.001
NTE	0.21		1.80		1.8		19.4		0.02		0.075	

[4] g/bhp-hr=grams per brake horsepower-hour; FTP=Federal Test Procedure; EURO=Euro III European Steady-State Cycle; 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;

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: The listed engine models have been certified to the optional emission standards and test procedures in 13 CCR 1956.8 applicable to diesel or incomplete MDV with a 8501-14000 pound GVWR and shall be subject to 13 CCR 2139(c) (in-use testing of engines certified for use in diesel or incomplete MDV with a 8501-14000 pound GVWR).

BE IT FURTHER RESOLVED: The listed engine models have been certified to the split engine family standards under 13CCR 1956.8(b) [diesel engine] or 13 CCR 1956.8(d) [OTTO engines] and the incorporated 40CFR86.007-15(m)(9).

BE IT FURTHER RESOLVED: For the listed vehicle models the manufacturer has submitted the materials to demonstrate certification compliance with 13 CCR 1965 (emission control labels), 13 CCR 1968.2 (on-board diagnostic, full or partial compliance), 13 CCR 1976(b)(1)(B)-(C) or 13 CCR 1976(b)(1)(F) {evaporative emission standards}, 13 CCR 2035 et seq. (emission control warranty), and 13 CCR 2235 [fill pipes and openings of motor vehicle fuel tanks]. (The braces { } are for gasoline, LPG or alcohol fueled vehicles only. The brackets [ ] are for gasoline or alcohol fueled vehicles only.)

Vehicles 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 5 day of November 2009.

Annette Hebert, Chief
Mobile Source Operations Division

ATTACHMENT A-360-0013

1. Introduction

This document provides description details of the MFTBC CANTER diesel Medium Duty Vehicle for which this application for Executive Order is sought.

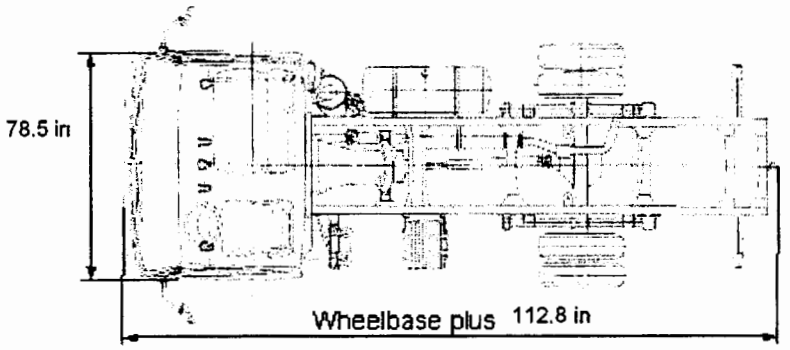
The description provides sufficient detail to identify whether any given in-use vehicle is, or is not, covered by the applied for Executive Order.

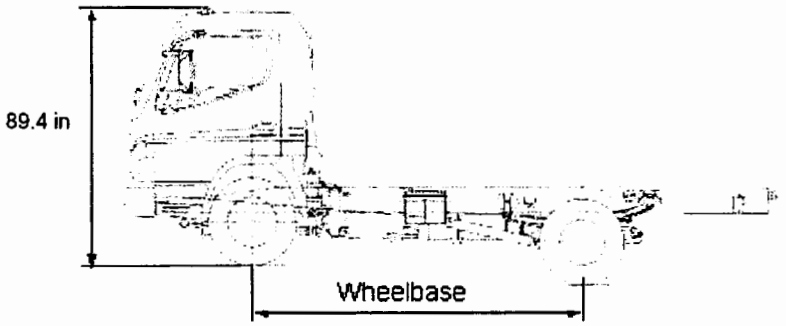
2. Vehicle Description

The CANTER MDV is available in 3 variations based purely on the wheelbase length. Please note that all variations have the same GVWR of 12,500lb. The table below shows the available wheelbase options and the corresponding model designations:

Vehicle model	Wheelbase (in)
FE83DDZSLSUH, FE83DDZSLSUL	**114.6**
FE83DEZSLSUH, FE83DEZSLSUL	**134.3**
FE83DGZSLSUH, FE83DGZSLSUL	**152.4**

The figures below show schematic drawings of the CANTER MDV model





~~CONFIDENTIAL~~ ATTACHMENT A-360-0013

FUSO

2010 Model Year Medium Duty Vehicle
Application for Certification

Vehicle Model : Canter –
FE83DDZSLSUH
FE83DEZSLSUH
FE83DGZSLSUH
FE83DDZSLSUL
FE83DEZSLSUL
FE83DGZSLSUL

Engine Family Name : 9MFTH04.9M5B