

File

Pursuant to the authority vested in the Air Resources Board by Health and Safety Code (HSC), Div. 26, Part 5, Chap. 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 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.

MODEL YEAR	TEST GROUP	VEHICLE TYPE	EXHAUST EMISSION STANDARD CATEGORY	EXHAUST / EVAPORATIVE USEFUL LIFE (UL) (miles)	FUEL TYPE
2002	2FMXA05.4HJD	3,751-5,750 Pounds Adjusted Loaded Vehicle Weight Medium Duty Vehicle	ULEV	120K / 120K	Gasoline (Indolene)
No.	EVAPORATIVE FAMILY (EVAP)	No.	SPECIAL FEATURES & EMISSION CONTROL SYSTEMS (ECS)	* = not applicable	
1	2FMXE0155BAF	1	2TWC(2), 2HO2S(2), EGR, SFI, OBD (P)	TWC=3-way catalyst ADSTWC=adsorbing TWC WU=warm-up catalyst OC=oxidizing catalyst O2S=oxygen sensor HO2S=heated O2S AFS/HAFS=air- fuel ratio sensor/heated AFS EGR=exhaust gas recirculation AIR=secondary air injection PAIR=pulsed AIR MFI= multiport fuel injection SFI= sequential MFI TBI= throttle body injection TC/SC = turbo/super charger CAC=charge air cooler OBD (F) / (P)=full/partial on-board diagnostic prefix 2=parallel (2) suffix=series	
2	2FMXE0155BAG	2	*		
3	*	3	*		
4	*	4	*		
EVAP No.	ECS No.	ENGINE SIZE (L)	VEHICLE MAKES & MODELS	VEHICLES SUBJECT TO SFTP STANDARDS ARE UNDERLINED	ABBREVIATIONS:
1	1	5.4	<u>Ford F-150 Pickup 2WD/4WD Short Wheelbase; F-150 Supercrew Pickup 2WD Short Wheelbase</u>		
2	1	5.4	<u>Ford F-150 Pickup 2WD/4WD Long Wheelbase</u>		
*	*	*	*		
*	*	*	*		

The exhaust and evaporative emission standards (STD) and certification emission levels (CERT) for the listed vehicles are as follows, except that compliance with the 50° Fahrenheit testing requirement (for low emission vehicles only) may have been met based on the manufacturer's submitted compliance plan in lieu of actual testing. Any debit in the manufacturer's compliance plan for "NMOG Fleet Average" (passenger cars and light-duty trucks) or "Vehicle Equivalent Credit" (medium-duty vehicles) shall be equalized as required. (For bi-, dual- or flexible-fueled vehicles, the emission standards and certification levels in parentheses are those applicable to testing on gasoline test fuel.)

NMOG FLEET AVERAGE [g/mi]		NMOG @ RAF=1.00 CH4 RAF = *		NMOG or NMHC STD [g/mi]	CH4=methane NMOG=non-CH4 organic gas NMHC=non-CH4 hydrocarbon CO=carbon monoxide		NOx=oxides of nitrogen HCHO=formaldehyde PM=particulate matter RAF=reactivity adjustment factor		CO [g/mi]		NMHC+NOx [g/mi]		CO [g/mi]			
CERT	STD	NMOG CERT [g/mi]	NMHC CERT [g/mi]		CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD
K = 1000 miles	@ 50K	0.053	*	0.100	0.7	4.4	0.1	0.4	1	9	*	*	0.04	0.8		
	@ UL	0.065	*	0.143	1.2	6.4	0.1	0.6	1	13	*	*	0.1	1.2		
	@ 50°F & 4K	0.171	*	0.200	1.2	4.4	0.05	0.4	0.0	18	*	*	*	*		
CO [g/mi] @ 20°F & 50K		g = gram mg = milligram mi = mile		NMHC+NOx [g/mi] (composite)		NMHC+NOx [g/mi] [US06]		CO [g/mi] [US06]		NMHC+NOx [g/mi] [SC03]		CO [g/mi] [SC03]				
CERT	STD	SFTP @ 4K		CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD			
4.2	12.5	SFTP @ UL		*	*	0.04	0.40	0.3	10.5	0.02	0.31	0.04	3.5			
F = degree Fahrenheit		SFTP @ UL		*	*	*	*	*	*	*	*	*	*			
@ UL	EVAPORATIVE FAMILY 1				EVAPORATIVE FAMILY 2				EVAPORATIVE FAMILY 3				EVAPORATIVE FAMILY 4			
	3-D	2-D	RL	ORVR	3-D	2-D	RL	ORVR	3-D	2-D	RL	ORVR	3-D	2-D	RL	ORVR
CERT	1.3	1.0	0.01	*	1.3	1.0	0.01	*	*	*	*	*	*	*	*	*
STD	2.0	2.5	0.05	*	2.5	3.0	0.05	*	*	*	*	*	*	*	*	*

BE IT FURTHER RESOLVED: That for the listed vehicle models, the manufacturer has attested to compliance with Title 13, California Code of Regulations, (13 CCR) Sections 1965 [labeling], 1968.1 or 1968.1(m)(6.2)[on-board diagnostic (OBD) 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 Exhaust Emission Standards and Test Procedures for 2001 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles).

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 20th day of December 2001. R. B. Summerfield, Chief
Mobile Source Operations Division