State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-724 Relating to Certification of New Motor Vehicles

GENERAL MOTORS CORPORATION

Pursuant to the authority vested in the Air Resources Board by the 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-45-9;

IT IS ORDERED AND RESOLVED: That 1996 model-year General Motors Corporation exhaust emission control systems are certified as described below for medium-duty vehicles:

Fuel Type: Gasoline

Engine Family: TGM5.0HPG1EK <u>Displacement</u>: 5.0 Liters (305 Cubic Inches)

Exhaust Emission Control Systems and Special Features:

Exhaust Gas Recirculation Three Way Catalytic Converter Dual Heated Oxygen Sensors Heated Oxygen Sensors (Two) Sequential Multiport Fuel Injection

Vehicle models, transmissions, engine codes and evaporative emission control families are listed on attachments.

The certification exhaus mission standards for this engine family in grams per mile are:

Test Weight	Milaa	Non-Methane Hydrocarbons	.Carbon Monox <u>ide</u>	Nitrogen Oxid <u>es</u>	Carbon <u>Monoxide (20⁰F)</u>
(1bs.) 3751-5750	Miles 50,000 120,000	0.32 0.46	4.4 6.4	0.7 0.98	12.5 n/a

The certification exhaust emission values for this engine family in grams per mile are:

Test Weight (lbs.)	Miles	Non-Methane <u>Hydrocarbons</u>	Carbon <u>Monoxide</u>	Nitrogen <u>Oxides</u>	Carbon <u>Monoxide (20⁰F)</u>
3751-5750	50,000	0.23	1.8	0.3	4.4
	120,000	0.34	2.2	0.36	n/a

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the 50,000-mile evaporative emission standards applicable to 1980 through 1994 model-year vehicles in the "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles", and the listed vehicle models comply with those standards.

BE IT FURTHER RESOLVED: That, based on the evaporative emission phase-in compliance schedule submitted by the vehicle manufacturer, the listed vehicle models shall not be subject to the running loss and useful life standards set forth in the "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles."

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's "Specifications for Fill Pipes and Openings of Motor Vehicle Fuel Tanks" for the aforementioned model year (Title 13, California Code of Regulations, Section 2235).

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high-altitude requirements and highway emission standards, and with the California Inspection and Maintenance emission standards in place at the time of certification, as stipulated in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles".

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "California Motor Vehicle Emission Control Label Specifications" for the aforementioned model year (Title 13, California Code of Regulations, Section 1965).

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "Malfunction and Diagnostic System Requirements--1994 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles and Engines" (Title 13, California Code of Regulations, Section 1968.1) for the aforementioned model year.

BE IT FURTHER RESOLVED: That for the listed vehicles, the manufacturer has submitted and the Executive Officer hereby approves the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2035 et seq.).

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 order and attachment.

Executed at El Monte, California this 🔟

day of August 1995.

R. B. Summerfield Assistant Division Chief

Mobile Source Division

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET LIGHT DUTY TRUCKS AND MEDIUM DUTY VEHICLES

Example, Pattern A: CC10703+E62 Example, Pattern B: 1UM05

Digit 1 = Marketing Division

Pattern A = Chevrolet T = GMC

H = Oldsmobile

G = Isuzu

Pattern B

1 = Chevrolet 2 = Pontiac

3 = 0 ldsmobile

Digit 1 is not used for Pattern A models on engine family pages or Note:

California Supplemental Data Sheets.

Digit 2 = Chassis Type (all)

= Conventional 4x2 Front Wheel Drive C, S, M = Conventional 4x2 Rear Wheel Drive = Forward Control 4x2 Rear Wheel Drive

K, T, L = Conventional 4x4 Four Wheel Drive, All Wheel Drive

Digit 3 = Series/GVWR

Pattern A 1 = 11,15,1500/3500-7300 2 = 21,25,2500/6400-8600

3 = 31.35.3500/7100-14500

Pattern B Letter code designates trim level

06 = Passenger (Lumina APV, Trans

Sport, Silhouette)

rather than series/GVWR.

05 = Cargo (APV)

Digits 4 & 5 Pattern B

Pattern A = Dimensional Grouping

05 = Blazer, Jimmy, Bravada

06 = S/T Short Box 07 = C/K Short Box

08 = S/T Long Box & Cab-Chassis 09 = C/K Long Box, Suburban,

10 = M/L Long Body

14 = G Short Wheelbase 17 = G Long Wheelbase

Digits 6 & 7 = Body/Cab Codes (Pattern A Only)

03 = Conventional Cab. Cab-Chassis

05 = Cargo Van

06 = Passenger Van, 4 Door Special Purpose Vehicle

16 = 2 Door Special Purpose Vehicle

43 = Crew Cab 53 = Extended Cab

Pickup Body Codes (Optional, Used with Pattern A Only)

+E62 = Stepside, Fenderside +E63 = Fleetside, Wideside

+ZW9 = Cab-Chassis

ISSUED: ML-TP099

REVISED:

17-TGM5.OHPG1EK-1

MED CENEDAL	MOTORS CORP	ENGINE FAMIL	Υ: TG <u>M5.0H</u>	<u>PG1EK EVAP. F/</u>	AMILY: <u>TGM1098AYM</u> AR96F	<u>18A</u>
MFR: GENERAL	TO THE ENGINE FAMI	LV. CA	χ	49S <u>X</u> 5	OS AB965	<u></u>
ALL ENGINE COD	TES IN ENGINE PART	v 1 EV	ULEV	ZEV ;	U.S. EPA Tier-1	NA
EXH SID: CA	(liet-i <u>x</u>) re	V CC MITH D/I		USE EXH STD: FULL	ALTERNATIVE_	
EVAP STD: 50K	X USEFUL LI	1 DT2	— ' мпу1	MDV2 X MDV3_	MDV4 M(DV5
VEH CLASS(ES):	PC LDI1	_ LUIZ	V. NA	11012 <u></u>	_	
SINGLE CERT ST	TD FOR MULTI-CLASS	ENGINE PARTIL		es test filfi (S).	INDO PHASE 2_	<u>X</u>
FUEL TYPE(S):	DEDICATED_X_	GASULINE_X_	, LIII	AND TEST PROC: NA	EQUIV	_
SERVICE ACCUM	: STD AMA	MFR ADP_2	(;	100 1231 1 100. <u>- 14</u>	<u>. </u>	_ A
R/L TEST PROC	: <u>NA</u> PT	SOURCE ;	HYBK.	IN TIPE. <u>NO.</u>	APU CYCLE: N	 -
ENGINE CONFIG	URATION: I4	V6 V8_X	DI:	SPLACEMENT: _3.0 C	ITERS/ <u>305</u> CU.IN.	!
	VALVES	S/CYLINDER:	2 <u>X</u> 4	RATED MP:	220 @ <u>4600</u> RPM	•
ENGINE LOCATI	ON: FRONT <u>X</u>	DR	IVE: FWD		-FT 4WD-PT_X	
EXHAUST EMISS	ION CONTROL SYSTE	M:L	EGR, TWC, 2H	02S-H02S(2), SFI, I	OBD II	
RLHP/DPA VALU	ES: <u>SECTION 08.</u>	<u> 13.02.00 </u>			rcn.	CATALYTIC
ENG		TRANS.	EQUIV.	IGNITION (ECM/PCM)	EGR SYSTEM	
	VEH MODELS (SEE PAGE 1)	(M5,A4 <u>ETC.)</u>	WEIGHT	PART NO./CALIB	PART NO.	<u>PART NO.</u>
(C)				16177415/	17096188.	25163811.
	C10703+E62 C10703+E63	A4	2000	16187661-ENG		25163841
	C10903+E63		5250	16187778, 16187779-TRANS		
	C10753+E62 C10753+E63			16187577PB-OPE		
	C10953+E63		5500			
	K10703+E62		5250			
	K10703+E63 K10753+E62		5500			
	K10753+E63					
	K10953+E63 C20903+E63					•
	K10903+E63			16177415/		
51A				16227413-ENG		
				16227572. 16227573-TRANS		
				16227245PF-0PE		
CARLINE		CARLINE CODE 55015				
C1500 PICKUF C2500 PICKUF		55020				
K1500 PICKU	P 4WD	55030				
C1500 SIERRA C2500 SIERRA		80010 80015				
K1500 SIERR		80020				

SSUED: ML-TP099 REVISED: ML-TR053, ML-TR022, ML-TR073, ML-TR116

MFR: <u>GEN</u>	IERAL MOTORS CORP.	ENGI	NE FAMILY:	TGM5_OHPG1EK	EVAP. FAMILY:	TGM1098AYMBA
ENG CODE (LOC) (C) 81	VEH MODELS (SEE PAGE 1) C10703+E62 C10703+E63 C10903+E63 C10753+E62 C10753+E63 C10953+E63 K10703+E63 K10703+E63 K10753+E63 K10753+E63 K10953+E63 C20903+E63 K10903+E63	TRANS. (M5.A4 <u>ETC.)</u> A4	EQUIV. TEST WEIGHT 5000 5250 5500 5250	IGNITION (ECM/PCM) PART NO. 16177415/ 16232348-ENG 16227572. 16227573-TRANS 16235505PH-OPER	EGR SYSTEM <u>PART_NO.</u> 17096188, 17096309	CATALYTIC CONVERTER PART NO. 25163811. 25163841
81A				16237015PJ-OPER		
518				16227527-ENG 16232915PG-0PER		
51C				16237015PJ-OPER		

CARLINE NAME	CARLINE CODE
C1500 PICKUP 2WD	55015
C2500 PICKUP 2WD	55020
K1500 PICKUP 4WD	55030
C1500 SIERRA 2WD	80010
C2500 SIERRA 2WD	80015
K1500 SIERRA 4WD	80020

*SSUED: ML-TR022

REVISED: ML-TR062, ML-TR073, ML-TR116

✓MFR: <u>GEN</u>	IERAL MOTORS CORP.	ENGIN	IE FAMILY: _	TGM5.0HPG1EK	EVAP. FAMILY:	TGM1098AYMBA
ENG CODE (LOC)	VEH MODELS (SEE PAGE 1)	TRANS. (M5.A4 <u>ETC.)</u>	EQUIV. TEST <u>WEIGHT</u>	IGNITION (ECM/PCM) PART NO.	EGR SYSTEM <u>PART NO.</u>	CATALYTIC CONVERTER PART NO.
(C) 52	C10703+E62 C10703+E63 C10903+E63 C10753+E62	A4	5250	16177415/ 16187661-ENG 16187778. 16187779-TRANS 16187577PB-OPER	17096188, 17096309	25163811. 25163841
	C10753+E63 C10953+E63		5500			
	K10703+E62		5250			
	K10703+E63 K10753+E62 K10753+E63		5500			
	K10953+E63 C20903+E63		6000			
	K10903+E63 K10753+E62 K10753+E63		5500 6000			
52A				16177415/ 16227413-ENG 16227572. 16227573-TRANS 16227245PF-OPER		

CARLINE NAME	<u>CARLINE CODE</u>
C1500 PICKUP 2WD	55015
C2500 PICKUP 2WD	55020
K1500 PICKUP 4WD	55030
C1500 SIERRA 2WD	80010
C2500 SIERRA 2WD	80015
K1500 SIERRA 4WD	80020

✓ISSUED: ML-TR116 REVISED:

MFR:	GENERAL MOTORS CORP.	ENGI	NE FAMILY:	TGM5.0HPG1EK	EVAP. FAMILY:	TGM1098AYMBA
ENG CODE (LOC		TRANS. (M5,A4 <u>ETC.)</u>	EQUIV. TEST WEIGHT	IGNITION (ECM/PCM) PART NO.	EGR SYSTEM <u>PART NO.</u>	CATALYTIC CONVERTER PART NO.
(C) 82	C10703+E62 C10703+E63	A4	5250	16177415/ 16232348-ENG	17096188. 17096309	25163811. 25163841
	C10903+E63 C10753+E62 C10753+E63		5250	16227572. 16227573-TRANS 16235505PH-OPER		
	C10753+E63 C10953+E63 K10703+E62		5500 5250			
	K10703+E63 K10753+E62 K10753+E63		5500			
	K10733+E63 K10953+E63 K10903+E63 K10753+E62 K10753+E63		6000 5500 6000			
82A				16237015PJ-0PER		
52B				16227527-ENG 16232915PG-OPER		
520				16237015PJ-0PER		

CARLINE NAME	<u>CARLINE CODE</u>
C1500 PICKUP 2WD	55015
C2500 PICKUP 2WD	55020
K1500 PICKUP 4WD	55030
C1500 SIERRA 2WD	80010
C2500 SIERRA 2WD	80015
K1500 SIERRA 4WD	80020
K1000 012	

ISSUED: ML-TR116

REVISED:

EVAP STD: 50K_X USEFUL LIFE WIVEH CLASS(ES): PC LDT1 LEST STD FOR MULTI-CLASS ENCEPTIEL TYPE(S): DEDICATED_X GASOL	LEVULEVZEV ITH R/L; IN-USE EXH S OT2 MDV1 MDV2_X GINE FAMILY: _NA_ LINE_X_; EMISS TEST F FR ADP_X_: NMOG TEST E; HYBRID TYPE V8_XDISPLACEM	U.S. EPA Tier-1 NA TD: FULL ALTERNATIVE MDV3 MDV4 MDV5 FUEL(S): INDO PHASE 2_X F PROC: NA EQUIV NA APU CYCLE: NA ENT: 5.0 LITERS/ 305 CU. IN.
VALVES/CYLI	NOCIN: 2	ATED HP: <u>200</u> @ <u>4400</u> RPM D_X 4WD-FT 4WD-PT
ENGINE LOCATION: FRONT_X_ EXHAUST EMISSION CONTROL SYSTEM:	DIXI 1	~
RLHP/DPA VALUES: <u>SECTION 08.13.0</u>	02.00	
ENG TRANS. CODE VEH MODELS (M5.A4 (LOC) (SEE PAGE 1) ETC.)	EQUIV. IGNITION TEST (ECM/PCM) <u>WEIGHT PART NO./CA</u>	ALIB PARI NU. PARI NU.
(C) 53.53M. G11405 A4 -4.54M	5500 16177415/ 16187719-EI 16187779-TI 16187577PB	RANS
53A.53N, 54A.54N	16174415/ 16227416-E 16227573-T 16227245PF	RANS
83.83M. 84.84M	16177415/ 16232354-E 16227573-T 16235505PF	RANS
53B.53P. 54B.54P	16177415/ 16227545-1 16227573- 16232915P6	TRANS
53C.53Q. 54C.54Q	16237015P	J-OPER
CARLINE NAME G1500/G2500 CHEVY VAN 2WD G1500/G2500 SAVANA 2WD CARGO	<u>CARLINE_CODE</u> 55050 80040	
	EVISED: ML-TR053, ML-TR022	?, ML-TR062, ML-TR073
		17-TGM5.OHPG1EK-3

MFR: GEN	ERAL MOTORS CORP.	_ ENGINE	FAMILY:	TGM5_0HPG1EK EVAP	. FAMILY: .	TGM1098AYMBB
ENG CODE (LOC) 83A.83N. 84A.84N	VEH MODELS (SEE PAGE 1) G11405	TRANS. (M5,A4 _ETC.) A4	EQUIV. TEST <u>WEIGHT</u> 5500	IGNITION (ECM/PCM) PART_NO./CALIB 16177415/ 16232354-ENG 16227573-TRANS 16237015PJ-OPER	EGR SYSTEM <u>PART NO.</u> 17096188, 17096309	CATALYTIC CONVERTER PART NO. 25163811

CARLINE NAME G1500/G2500 CHEVY VAN 2WD G1500/G2500 SAVANA 2WD CARGO CARLINE CODE 55050 80040

*SSUED: ML-TR073

REVISED: