

File

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-9-432
Relating to Certification of New Motor Vehicles

CHRYSLER 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 1999 model-year Chrysler Corporation exhaust emission control systems are certified as described below for medium-duty vehicles:

Emission Standard Category: Super-Ultra-Low-Emission Vehicle (SULEV)

Fuel Type: Compressed Natural Gas (CNG)

Engine Family: XCRXT05.26RC Displacement: 5.2 Liters (318 Cubic Inches)

Exhaust Emission Control Systems & Special Features:

- Three Way plus Oxidation Catalytic Converter
- Dual Heated Oxygen Sensors
- Sequential Multiport Fuel Injection

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

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

<u>Test Weight</u> <u>(lbs.)</u>	<u>Miles</u>	<u>Non-Methane</u> <u>Organic Gases</u>	<u>Carbon</u> <u>Monoxide</u>	<u>Nitrogen</u> <u>Oxides</u>	<u>Formaldehyde</u>
5751-8500	50,000	0.059	2.5	0.3	0.006
	120,000	0.084	3.7	0.45	0.008

The certification exhaust emission values set forth for non-methane organic gases (NMOG) reflect application of a reactivity adjustment factor (RAF) for 1999 model-year CNG-fueled medium-duty SULEVs.

BE IT FURTHER RESOLVED: That, as of the date of this order, the Air Resources Board has not proposed or adopted a RAF for medium-duty SULEVs operated on CNG. At the proposal of the manufacturer for the certification of the aforementioned engine family, and based on available data and analysis showing there is a strong likelihood that the RAF for such vehicles will be less than 1.000, the applicable RAF for the listed engine family shall be treated for all purposes relating to this certification as:

Reactivity Adjustment Factor for NMOG Mass Emission: 1.000

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

<u>Test Weight</u> <u>(lbs.)</u>	<u>Miles</u>	<u>Non-Methane</u> <u>Organic Gases</u>	<u>Carbon</u> <u>Monoxide</u>	<u>Nitrogen</u> <u>Oxides</u>	<u>Formaldehyde</u>
5751-8500	50,000	0.036	2.4	0.2	0.001
	120,000	0.048	2.9	0.20	0.002

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the aforementioned exhaust emission standards based on its submitted plan to comply with the medium-duty vehicle phase-in requirements as set forth in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles" (Title 13, California Code of Regulations, Section 1960.1(h)(2)).

BE IT FURTHER RESOLVED: That under the submitted medium-duty vehicle phase-in compliance plan, if the manufacturer incurs "Vehicle Equivalent Debits" for the aforementioned model year due to the manufacturer's failure to produce and deliver for sale in California the equivalent quantity of medium-duty vehicles certified to low-emission vehicle and/or ultra-low-emission vehicle exhaust emission standards required by the above-referenced standards and test procedures, all "Vehicle Equivalent Debits" incurred by the manufacturer shall be equalized as required by the standards and test procedures.

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 and Smog Index 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 9th day of October 1998.


for R. B. Summerfield, Chief
Mobile Source Operations Division

1999 MODEL YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

E.O. # A-9-432
Page 1 of 1

Manufacturer: Chrysler Corporation Exh Eng Fam: XCRXT05.26RC Evap Fam: XCRXE0000CDH
 All Eng Codes in Eng Fam: CA 49S 50S X AB965 ORVR: YES NO X
 Exh Std: CA Tier-1 TLEV LEV ULEV SULEV X; US EPA Tier-1
 Veh Class(es): PC LDT1 LDT2 MDV1 MDV2 MDV3 X MDV4 MDV5
 Single Cert Std for Multi-Class Eng Fam: N/A (Specify: N/A, LDT1, MDV1, MDV2, MDV3, MDV4)
 Fuel Type(s): Dedicated X Flex-Fuel Dual-Fuel Bi-Level Gasoline Diesel
 CNG X LNG LPG M85 Other (specify)
 Emis Test Fuel(s): Indo CBG CNG X LPG M85 Other(specify)
 Diesel: 13 CCR 2282 or 40 CFR 86.113-90 or 40 CFR 86.113-94
 Evaporative Emission Test Procedure: California N/A Federal
 Service Accum: Std AMA Mod AMA X Mfr ADP Other (Specify)
 NMOG Test Procedure: N/A Std Equiv X R/L Test Proce: SHED Pt Source
 Engine Configuration: V-8 Displacement: 5.2 Liters 318 Cubic Inches
 Valves per Cylinder: 2 Rated HP: 200 @ 4800 RPM
 Engine: Front X Mid Rear Drive: FWD RWD X 4WD-FT 4WD-PT
 Exhaust ECS (eg., EGR, MFI, TC, CAC): TWC + OC, 2H02S, SFI, OBD II CERTIFIED

(use abbreviations per SAE J1930 JUN93)

Engine Code (also list CA/49ST/50ST)	Vehicle Models (if coded see attachment)	Trans. Type M5 A4	ETW or Test Wt.*	DPA or RLHP	Ignition (ECM/PCM) Part No.	EGR System Part No.	Catalyst Converter Part No.
CA-100 FA-100 (CA)	AB2L12 AB2L13 AB2L52	A4	6500	S E E A T T A C H M E N T	56040118AA	--	52103470AB
	AB3L12 AB3L13		7000				
	AB3L13 AB3L53		7500				

Date Issued: 9/15/98

Revisions: 10/8/98

TK22-SDS/99

Attachment to SDS, a.g. 1 of 5
for Executive Order A-9-432

MODEL	ENG TRANS	A	C	GVM	MKT	LVW	TIRE DESCRIPTION	TIRE USE YR	MFG	OPT	STD	99	TWT	TZH	COAST		TIRE PRES	LOADED VEHICLE WEIGHT			ADJUSTED LOADED VEHICLE WGT								
															DOWN	*DYNO		TARGET A	COLD CO	ELECTRIC	DYN0	COEFFICIENTS	SET A	B	C	ALVM	DOMN	COAST	TIRE
															TIME	HP													
AB2L12	ELN	DGT	RW	Y	7700	C	5500	STD	99	TWZ	TZH	13.84	16.4	40	40	70.92	0.04882	6500	15.29	15.4	50	65							
							OPT	99	TWT	TZH	70.92	64.47			0.04438		6500	15.29	15.4	50	65								
							OPT	99	TWY	TZH	70.92	64.47			0.04438		6500	15.29	15.4	50	65								
							OPT	99	TYT	TZH	70.92	64.47			0.04438		6500	15.29	15.4	50	65								
							STD	99	TWZ	TZH	70.92	64.47			0.04438		6500	15.29	15.4	50	65								
							OPT	99	TWT	TZH	70.92	64.47			0.04882		6500	15.29	15.4	50	65								
							OPT	99	TWY	TZH	70.92	64.47			0.04882		6500	15.29	15.4	50	65								
							OPT	99	TYT	TZH	70.92	64.47			0.04882		6500	15.29	15.4	50	65								
AB2L13	ELN	DGT	RW	Y	7700	C	5500	STD	99	TWZ	TZH	13.84	16.4	40	40	70.92	0.04882	6500	15.29	15.4	50	65							
							OPT	99	TWT	TZH	70.92	64.47			0.04438		6500	15.29	15.4	50	65								
							OPT	99	TWY	TZH	70.92	64.47			0.04438		6500	15.29	15.4	50	65								
							OPT	99	TYT	TZH	70.92	64.47			0.04438		6500	15.29	15.4	50	65								
AB2L13	ELN	DGT	RW	Y	7700	F	5500	STD	99	TWZ	TZH	13.84	16.4	40	40	70.92	0.04882	6500	15.29	15.4	50	65							
							OPT	99	TWT	TZH	70.92	64.47			0.04438		6500	15.29	15.4	50	65								
							OPT	99	TWY	TZH	70.92	64.47			0.04438		6500	15.29	15.4	50	65								
							OPT	99	TYT	TZH	70.92	64.47			0.04438		6500	15.29	15.4	50	65								
AB2L52	ELN	DGT	RW	Y	7700	C	6000	STD	99	TWY	TZH	14.59	15.8	40	40	77.85	0.04882	6500	15.29	15.4	50	65							
							OPT	99	TWT	TZH	70.77	77.85			0.04438		6500	15.29	15.4	50	65								
							OPT	99	TWZ	TZH	70.77	77.85			0.04438		6500	15.29	15.4	50	65								
							OPT	99	TYT	TZH	70.77	77.85			0.04438		6500	15.29	15.4	50	65								
AB2L52	ELN	DGT	RW	Y	7700	F	6000	STD	99	TWY	TZH	14.59	15.8	40	40	77.85	0.04882	6500	15.29	15.4	50	65							
							OPT	99	TWT	TZH	70.77	77.85			0.04438		6500	15.29	15.4	50	65								
							OPT	99	TWZ	TZH	70.77	77.85			0.04438		6500	15.29	15.4	50	65								
							OPT	99	TYT	TZH	70.77	77.85			0.04438		6500	15.29	15.4	50	65								

* - For DYNO HIP = 0.00
Ref To FRONTAL AREA

/ 10. - 1K02 - 400 /

Report Date: 09/08/98
Time: 13:04:05

LOADED VEHICLE WEIGHT										ADJUSTED LOADED VEHICLE WGT														
MODEL	ENG	TRANS	A	HKT	LVM	TIRE	DESCRIPTION	COAST	TIRE	HP	*DYNO	PRES	HP	*DYNO	PRES	HP	*DYNO	PRES	HP	*DYNO	PRES			
AB3L53	ELN	DGT	RM	Y	8700	C	6500	13.84	16.4	40	40	70.92	17.10	12.3	55	80	17.10	12.3	55	80	17.10	12.3	55	80
OPT 99	TYT	TZH						13.84	16.4	40	40	70.92	17.10	12.3	55	80	17.10	12.3	55	80	17.10	12.3	55	80
OPT 99	TWZ	TZH						13.84	16.4	40	40	64.47	17.10	12.3	55	80	17.10	12.3	55	80	17.10	12.3	55	80
STD 99	TWY	TZH						15.48	14.5	40	40	82.18	17.10	12.3	55	80	17.10	12.3	55	80	17.10	12.3	55	80
STD 99	TYT	TZH						15.48	14.5	40	40	74.71	17.10	12.3	55	80	17.10	12.3	55	80	17.10	12.3	55	80
OPT 99	TWT	TZH						15.48	14.5	40	40	82.18	17.10	12.3	55	80	17.10	12.3	55	80	17.10	12.3	55	80
OPT 99	TWZ	TZH						15.48	14.5	40	40	74.71	17.10	12.3	55	80	17.10	12.3	55	80	17.10	12.3	55	80
STD 99	TWY	TZH						15.48	14.5	40	40	82.18	17.10	12.3	55	80	17.10	12.3	55	80	17.10	12.3	55	80
STD 99	TYT	TZH						15.48	14.5	40	40	74.71	17.10	12.3	55	80	17.10	12.3	55	80	17.10	12.3	55	80
OPT 99	TWT	TZH						15.48	14.5	40	40	82.18	17.10	12.3	55	80	17.10	12.3	55	80	17.10	12.3	55	80
OPT 99	TWZ	TZH						15.48	14.5	40	40	74.71	17.10	12.3	55	80	17.10	12.3	55	80	17.10	12.3	55	80
STD 99	TWY	TZH						15.48	14.5	40	40	82.18	17.10	12.3	55	80	17.10	12.3	55	80	17.10	12.3	55	80
STD 99	TYT	TZH						15.48	14.5	40	40	74.71	17.10	12.3	55	80	17.10	12.3	55	80	17.10	12.3	55	80
OPT 99	TWT	TZH						15.48	14.5	40	40	82.18	17.10	12.3	55	80	17.10	12.3	55	80	17.10	12.3	55	80
OPT 99	TWZ	TZH						15.48	14.5	40	40	74.71	17.10	12.3	55	80	17.10	12.3	55	80	17.10	12.3	55	80
STD 99	TWY	TZH						15.48	14.5	40	40	82.18	17.10	12.3	55	80	17.10	12.3	55	80	17.10	12.3	55	80
STD 99	TYT	TZH						15.48	14.5	40	40	74.71	17.10	12.3	55	80	17.10	12.3	55	80	17.10	12.3	55	80
OPT 99	TWT	TZH						15.48	14.5	40	40	82.18	17.10	12.3	55	80	17.10	12.3	55	80	17.10	12.3	55	80
OPT 99	TWZ	TZH						15.48	14.5	40	40	74.71	17.10	12.3	55	80	17.10	12.3	55	80	17.10	12.3	55	80
STD 99	TWY	TZH						15.48	14.5	40	40	82.18	17.10	12.3	55	80	17.10	12.3	55	80	17.10	12.3	55	80
STD 99	TYT	TZH						15.48	14.5	40	40	74.71	17.10	12.3	55	80	17.10	12.3	55	80	17.10	12.3	55	80
OPT 99	TWT	TZH						15.48	14.5	40	40	82.18	17.10	12.3	55	80	17.10	12.3	55	80	17.10	12.3	55	80
OPT 99	TWZ	TZH						15.48	14.5	40	40	74.71	17.10	12.3	55	80	17.10	12.3	55	80	17.10	12.3	55	80
STD 99	TWY	TZH						15.48	14.5	40	40	82.18	17.10	12.3	55	80	17.10	12.3	55	80	17.10	12.3	55	80
STD 99	TYT	TZH						15.48	14.5	40	40	74.71	17.10	12.3	55	80	17.10	12.3	55	80	17.10	12.3	55	80

* - For DYNO HP = 0.00
Ref To FRONTAL AREA

TIRE DESCRIPTION VR COD MFG OPT NAME	SIZE	CONSTRUCTION RPM COD TREAD MATERIAL	P		SIDEWALL MATERIAL	P		TREAD DEPTH P (IN.)
			L	Y		L	Y	
99 TWT TZH LTX	(A/S) LT225/75R16-E	711 SBR 3-Steel/2-Polyester	5	5	BSW Polyester	2	None	0 14
99 TWY TZH LTX	(A/S) LY225/75R16-D	712 SBR 3-Steel/2-Polyester	5	5	OML Polyester	2	None	0 13
99 TMZ TZH LTX	(A/S) LI225/75R16-D	712 SBR 3-Steel/2-Polyester	5	5	BSW Polyester	2	None	0 13
99 TYT TZH LTX	(A/S) LT245/75R16-E	679 SBR 3-Steel/2-Polyester	5	5	BSW Polyester	2	None	0 14

MODELS COVERED BY CERTIFICATE

Vehicle MFR: CHRYSLER

Engine Family: XCRXT05.26RC
Evaporative Fam: XCRXE0000CDH

Certificate #:

Model ID	Car Line	California Sales
AB2L12	Ram Van 2500 2WD	YES
AB2L13	Ram Van 2500 2WD	YES
AB3L13	Ram Van 3500 2WD	YES
AB3L12	Ram Van 83500 2WD	YES
AB2L52	Ram Wagon 2500 2WD	YES
AB3L53	Ram Wagon 3500 2WD HDV	YES

Model Codes
AB 1 L 11

1st digit: 2nd digit:
1=Van 1=109.6" wb
5=Wagon 2=127.6" wb
3=127.6" maxi wb

Price Class
L=Low Line
X=Premium

Model:
1=B1500
2=B2500
3=B3500

Body Code:
Vans
Wagons