

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER D-218
Relating to Exemptions Under Section 27156
of the Vehicle Code

CAMET COMPANY
"3-WAY PLUS OXIDATION CATALYTIC CONVERTER
SERIES 5800"

WHEREAS, Vehicle Code Section 27156 and Title 13 California Code of Regulations (hereafter "CCR") Section 2222(h), authorize the California Air Resources Board (ARB) and its Executive Officer to exempt new aftermarket catalytic converters from the prohibitions of Vehicle Code Section 27156.

WHEREAS, Camet Company of 12000 Winrock Road, Hiram, Ohio 44234, has applied to the ARB for exemption from the prohibitions in Vehicle Code Section 27156 for their new aftermarket 3-way plus oxidation catalytic converter series 5800 for the following application:

<u>Type</u>	<u>Universal</u>	<u>Direct Fit</u>	<u>Max. Engine Size</u>	<u>Max. Veh. Wt.</u>
TWC + OC	5803-5806	5810-5888	5.0L (305 CID)	4,500 lbs.

WHEREAS, pursuant to the authority vested in the Executive Officer by Health and Safety Code Section 39515 and in the Chief, Mobile Source Division by Health and Safety Code Section 39516 and Executive Order G-45-5, the Air Resources Board finds that the above aftermarket catalytic converter complies with the California Vehicle Code Section 27156 and Title 13, California Code of Regulations, Section 2222(h).

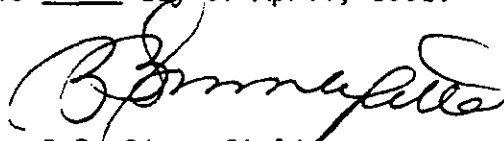
IT IS HEREBY RESOLVED that the above catalytic converter is exempt from the prohibitions in Vehicle Code Section 27156 for installation on the approved application vehicle subject to the following conditions:

1. No changes are permitted to the converter as described in the application for exemption. Any changes to the converter or any of its components, applicable model year, or other factors addressed in this order must be evaluated and approved by the Air Resources Board prior to marketing in California.
2. Marketing of the converter using identifications other than those shown in the exemption application or marketing of the converter for application other than one listed in the application catalog shall be prohibited unless prior approval is obtained from the Air Resources Board. Exemption of this product shall not be construed as an exemption to sell, offer for sale, or advertise any components of the converter as individual devices.

3. Any oral or written references to this Executive Order or its content by Camet Company, its principals, agents, employees, distributors, dealers, or other representatives must include the disclaimer that the Executive Order or the exemption it provides is not an endorsement or approval of any emissions reduction claims for the catalytic converter and is only a finding that the converter is exempt from the prohibitions of Vehicle Code Section 27156.

Violation of any of the above conditions shall be grounds for revocation of this order. The order may be revoked only after ten day written notice of intention to revoke it, during which period the holder of the order may request in writing a hearing to contest the proposed revocation. If a hearing is requested, it shall be held within ten days of receipt of the request, and the order may not be revoked until a determination is made, after the hearing, that grounds for revocation exist.

Executed at El Monte, California, this 4th day of April, 1991.



R.B. Summerfield
Assistant Division Chief
Mobile Source Division

State of California
AIR RESOURCES BOARD

EVALUATION OF CAMET COMPANY NEW AFTERMARKET 5800 SERIES
3-WAY PLUS OXIDATION CATALYTIC CONVERTER FOR EXEMPTION FROM
THE PROHIBITIONS OF VEHICLE CODE SECTION 27156 AND TITLE 13,
CALIFORNIA CODE OF REGULATIONS, SECTION 2222(h)

April, 1991

EVALUATION OF CAMET COMPANY NEW AFTERMARKET 5800 SERIES
3-WAY PLUS OXIDATION CATALYTIC CONVERTER FOR EXEMPTION FROM
THE PROHIBITIONS OF VEHICLE CODE SECTION 27156 AND TITLE 13,
CALIFORNIA CODE OF REGULATIONS, SECTION 2222(h)

by

Mobile Source Division

State of California
AIR RESOURCES BOARD
9528 Telstar Avenue
E1 Monte, CA 91731

(This report has been reviewed by the staff of the California Air Resources Board and approved for publication. Approval does not signify that the contents necessarily reflect the views and policies of the Air Resources Board, nor does mention of trade names or commercial products constitute endorsement or recommendation for use.)

CONTENTS

	<u>Page Number</u>
<u>SUMMARY</u>	i
<u>CONTENTS</u>	ii
I. <u>INTRODUCTION</u>	1
II. <u>CONCLUSION</u>	1
III. <u>RECOMMENDATION</u>	1
IV. <u>DEVICE DESCRIPTION</u>	2
V. <u>DEVICE EVALUATION</u>	2

SUMMARY

Camet Company (Camet) of 12000 Winrock Road, Hiram, Ohio 44234 has applied for an exemption to use their new 5800 series aftermarket three-way plus oxidation (TWC + OC) catalytic converter for vehicle application up to 5.0L and 4,500 lbs. weight under the California regulations for new aftermarket catalytic converters.

Emissions data submitted show that the catalytic converter meets the requirements of Vehicle Code Section 27156 and Title 13, California Code of Regulations, Section 2222(h) for the stated application. Based on the above, the staff recommends that the exemption be granted as requested.

EVALUATION OF CAMET COMPANY NEW AFTERMARKET 5800 SERIES
3-WAY PLUS OXIDATION CATALYTIC CONVERTER FOR EXEMPTION FROM
THE PROHIBITIONS OF VEHICLE CODE SECTION 27156 AND TITLE 13,
CALIFORNIA CODE OF REGULATIONS, SECTION 2222(h)

I. INTRODUCTION

Camet Company (Camet) of 12000 Winrock Road, Hiram, Ohio 44234 has applied for an exemption to use their new 5800 series aftermarket three-way plus oxidation (TWC + OC) catalytic converter for vehicle application up to 5.0L and 4,500 lbs. weight in accordance with the California regulations on new aftermarket catalytic converters. The intended application part numbers are shown below:

<u>Type</u>	<u>Universal</u>	<u>Direct Fit</u>	<u>Max. Engine Size</u>	<u>Max. Veh. Wt.</u>
TWC + OC	5803-5806	5810-5888	5.0L (305 CID)	4500 lbs.

The Camet converter is being marketed by AirTek, Inc. of 2624 W. Lincoln Hwy, Merrillville, Indiana 46410 under the above part numbers.

II. CONCLUSION

The applicant has submitted all the required information and based on the submitted exhaust emissions test data, the staff concludes that the catalytic converter meets the criteria set forth in Vehicle Code Section 27156 and Title 13, California Code of Regulations, Section 2222(h) for the stated application.

III. RECOMMENDATION

The staff recommends that the exemption be granted as requested and that Executive Order No. D-218 be issued, permitting the advertisement, sale and installation of the new aftermarket catalytic converter.

IV. DEVICE DESCRIPTION

The Camet three-way plus oxidation uses metallic substrates which are coated with platinum, palladium and rhodium, with air injection incorporated between the reducing and oxidizing substrates. The substrates are enclosed in an outer stainless steel shell. Heat shields are welded on top and bottom of the converter shell. The catalytic converter is sold with installation instructions and kits as shown in the application catalog. It is also sold with a warranty for 25,000 miles on the substrates and five years or 50,000 miles on the container or shell.

V. DEVICE EVALUATION

Camet has submitted the test data on the catalytic converter. The tests were conducted by Automotive Testing and Development Services, Inc. (ATDS), Huntington Beach, California. Two CVS-75 emission tests were conducted on each of the test vehicles with the converter installed and two CVS-75 tests were conducted with exhaust backpressure simulator. A 1984 and a 1985 Chevrolet Caprice, 5.0L with 4,500 lbs. test weight, were used for the mileage accumulation and emission testing. A carry-over test of the converter on a 1989 Buick Park Avenue, 3.8L with 4,250 lbs. test weight, intended for three-way application did not meet the minimum California NOx conversion efficiency of 60 percent, and therefore is not exempted for sale or installation on a vehicle in California. The exemption for the Camet three-way plus oxidation application is limited to vehicles up to 5.0L and 4,500 lbs. in order to conform to the "worst case" requirement of the California regulations. The test results and conversion efficiencies for the converter are shown below:

TWC + OC Converter Series 5800

	<u>Simulator 1</u>	<u>TWC + OC 1</u>	<u>Simulator 2</u>	<u>TWC + OC 2</u>	<u>Avg. Conv. Eff.</u>
HC (g/mi)	3.005	0.416	2.503	0.522	82.6%
CO (g/mi)	28.773	8.002	20.368	5.386	72.9%
NOx(g/mi)	2.343	0.724	1.809	0.876	60.4%

All of the conversion efficiencies meet the requirements of the California regulations. The staff based the evaluation of the new aftermarket catalytic converter on the information submitted by Camet and on test data from Automotive Testing and Development Services, Inc.