REPORT NUMBER 110-STF-09-008

# SAFETY COMPLIANCE TESTING FOR FMVSS 110 TIRE SELECTION AND RIMS

AUDI AG
2009 AUDI A6
FOUR-DOOR PASSENGER CAR
NHTSA NO. C95800

U.S. DOT SAN ANGELO TEST FACILITY
131 COMANCHE TRAIL, BUILDING 3527
GOODFELLOW AFB, TEXAS 76908

May 8, 2009

**FINAL REPORT**

**PREPARED FOR**

**U. S. DEPARTMENT OF TRANSPORTATION**
**NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION**
**ENFORCEMENT**
**OFFICE OF VEHICLE SAFETY COMPLIANCE**
**1200 NEW JERSEY AVENUE, S.E.**
**WEST BUILDING, FOURTH FLOOR, NVS-220**
**WASHINGTON, D.C. 20590**

This publication is distributed by the National Highway Traffic Safety Administration in the interest of information exchange. Opinions, findings and conclusions expressed in this publication are those of the author(s) and not necessarily those of the Department of Transportation or the National Highway Traffic Safety Administration. The United States Government assumes no liability for its contents or use thereof.

If trade or manufacturers' names or products are mentioned, it is only because they are considered essential to the object of the publication and should not be construed as an endorsement.

Prepared By: Doris Beebe

Approved By:

Accepted By:

Acceptance Date: 5/8/09

Technical Report Documentation Page

| 1. Report No.<br><br>110-STF-09-008 | 2. Government Accession No. | 3. Recipient's Catalog No. |
|---|---|---|
| 4. Title and Subtitle<br><br>Final Report of FMVSS 110 Compliance Testing of 2009 Audi A6 Four-door Passenger Car, NHTSA No. C95800 | | 5. Report Date<br>May 8, 2009<br><br>6. Performing Organization Code<br><br>STF |
| 7. Author(s)<br><br>Todd P. Groghan, Safety Compliance Engineer<br>Kenneth H. Yates, Safety Compliance Engineer | | 8. Performing Organization Report No.<br><br>STF-DOT-09-110-008 |
| 9. Performing Organization Name and Address<br><br>U.S. DOT San Angelo Test Facility<br>131 Comanche Trail, Building 3527<br>Goodfellow AFB, Texas 76908 | | 10. Work Unit No. (TRAIS)<br><br>11. Contract or Grant No. |
| 12. Sponsoring Agency Name and Address<br><br>United States Department of Transportation<br>National Highway Traffic Safety Administration<br>Office of Vehicle Safety Compliance<br>1200 New Jersey Avenue, SE<br>Washington, DC 20590 | | 13. Type of Report and Period Covered<br><br>Final Test Report<br>April 24 through April 28, 2009<br><br>14. Sponsoring Agency Code<br><br>NVS-220 |
| 15. Supplementary Notes | | |
| 16. Abstract<br>Compliance tests were conducted on the subject 2009 Audi A6 four-door passenger car in accordance with the specifications of the Office of Vehicle Safety Compliance Test Procedure No. TP-110P-03 for the determination of FMVSS 110 compliance. Test failures identified were as follows: NONE. | | |
| 17. Key Words<br><br>Compliance Testing<br>Safety Engineering<br>FMVSS 110 | 18. Distribution Statement<br><br>Copies of this report are available from:<br><br>NHTSA Technical Information Services<br>NPO-411<br>1200 New Jersey Avenue, S.E.<br>Washington, DC 20590<br>Email: tis@dot.gov<br>FAX: 202-493-2833 | |
| 19. Security Classification (of this report)<br><br>UNCLASSIFIED | 21. Number of Pages<br><br>41 | 22. Price |
| 20. Security Classification (of this page)<br><br>UNCLASSIFIED | | |

Form DOT F 1700.7 (8-72)

## TABLE OF CONTENTS

# SECTION 1

# INTRODUCTION

## 1.1 PURPOSE OF COMPLIANCE TEST

A 2009 Audi A6 passenger car was tested to determine if the vehicle was in compliance with the requirements of FMVSS No. 110. All tests were conducted in accordance with NHTSA, Office of Vehicle Safety Compliance (OVSC) Laboratory Test Procedure TP-110P-03, dated August 31, 2007.

## 1.2 TEST VEHICLE

The test vehicle was a 2009 Audi A6 four-door passenger car. Nomenclatures applicable to the test vehicle are:

A. Vehicle Identification Number: WAUCH74F29N022298

B. NHTSA Number: C95800

C. Manufacturer: Audi AG

D. Manufacture Date: 11/2008

## 1.3 TEST DATE

The test vehicle was tested April 24 through April 28, 2009.

# SECTION 2

# TEST PROCEDURE AND SUMMARY OF RESULTS

## 2.1 TEST PROCEDURE

Prior to test, the test vehicle was inspected for completeness, systems operability and appropriate fuel and liquid levels, i.e. oil and coolant. The vehicle was then photographically documented. The right front and left rear wheels were removed from the vehicle. Pertinent information on the tires and rims furnished with the vehicle were recorded and tires and rims were photographed.

The vehicle tire placard was photographed and checked for compliance to location, format, and information requirements. Subsequent events included weighing the vehicle to establish delivered curb weight and the distribution of weight on the front and rear axles and each wheel position. Vehicle was ballasted to Normal Load weight, Full Occupant Load, and Maximum Vehicle Load weight. At each step of the ballasting procedure, data was recorded. Ballast was photographically documented for the Normal and Maximum Vehicle Load weights. The owner's manual was checked for all required information on placard, tire loading, and general tire and loading parameters.

## 2.2 SUMMARY OF RESULTS

The Audi A6 test vehicle appears to be in compliance with all FMVSS 110 requirements tested.

SECTION 3

TEST DATA

## DATA SUMMARY SHEET

VEHICLE MAKE/MODEL/BODY STYLE: 2009 Audi A6 four-door passenger car

VEHICLE NHTSA NUMBER: C95800 VIN: WAUCH74F29N022298

VEHICLE TYPE: passenger car DATE OF MANUFACTURE: 11/2008

LABORATORY: US DOT San Angelo Test Facility

| PASSENGER CAR REQUIREMENTS | PASS/FAIL |
|---|---|
| **General** (Data Sheet 2) | |
| The vehicle is equipped with tires that meet the requirements of S139. (S110, S4.1) | **PASS** |
| **Tire Load Limits** (Data Sheet 5) | |
| The vehicle maximum load on the tire shall not be greater than the maximum load rating as marked on the sidewall of the tire. (S110, S4.2.1.1) | **PASS** |
| The vehicle normal load on the tire is not greater than the value of 94 percent of the load rating at the vehicle manufacturer's recommended cold inflation pressure for that tire. (S110, S4.2.1.2) | **PASS** |
| **Placard and Tire Inflation Pressure Label** (Data Sheets 4 and 5) | |
| The placard and tire inflation pressure label (if provided) are affixed and located correctly, and display the information and format required. (S110, S4.3) | **PASS** |
| No inflation pressure other than the maximum permissible inflation pressure may be shown on the placard and, if any, tire inflation pressure label unless as required. (S110, S4.3.4) | **PASS** |
| **Rim** (Data Sheet 3) | |
| Each rim is constructed to the dimensions of a rim specified for the application. (S110, S4.4.1(a)) | **PASS** |
| Vehicle rims retain deflated tires during a controlled brake application. (S110, S4.4.1(b)) | **See Remarks** |
| **Owner's Manual** (Data Sheet 6) | |
| Owner's manual or other document has discussion of Vehicle Placard Loading and Tires. (575.6 (a)(4)) | **PASS** |
| Owner's manual includes exact statement relating to "Steps for Determining Correct Load Limits." (575.6(a)(5)) | **PASS** |

REMARKS: The rim retention test required by FMVSS No.110, paragraph S4.4.1(b) was not executed on the subject Audi A6.

**DATA SHEET 1**
**TEST VEHICLE INFORMATION/RECEIVING INSPECTION**

VEHICLE MAKE/MODEL/BODY STYLE: 2009 Audi A6 four-door passenger car

VEHICLE NHTSA NUMBER: C95800 TEST DATE: April 24, 2009

VIN: WAUCH74F29N022298 MANUFACTURE DATE: 11/2008

GVWR: 2,265 kg (4,993 lb) GAWR(front): 1,190 kg (2,623 lb)

GAWR(rear): 1,175 kg (2,590 lb)

SEATING POSITIONS: FRONT 2 REAR 3

ODOMETER READING AT START OF TEST: 122 km (76 mi)

ENGINE DATA: 6 Cylinders 3.2 Liters _____ Cubic Inches

TRANSMISSION DATA: X Automatic _____ Manual CVT No. of Speeds

FINAL DRIVE DATA: _____ Rear Drive X Front Drive _____ 4 Wheel Drive

INSTALLED VEHICLE EQUIPMENT:

| | | | | | |
|---|---|---|---|---|---|
| X | Air Conditioning | X | Traction Control | X | Clock |
| | Tinted Glass | X | Tachometer | | Roof Rack |
| X | Power Steering | X | Cruise Control | X | Console |
| X | Power Windows | X | Rear Window Defroster | X | Driver Air Bag |
| X | Power Door Locks | X | Sun Roof or T-Top | X | Passenger Air Bag |
| X | Power Seat(s) | X | Tilt Steering Wheel | X | Side Curtain Air Bag(s) |
| X | Power Brakes | X | Stereo | X | Front Disc Brakes |
| X | Antilock Brake System | | Telephone | X | Rear Disc Brakes |
| | Navigation System | | Trailer Hitch | | Other - |

REMARKS: None

RECORDED BY: Todd P. Groghan DATE: April 24, 2009

APPROVED BY: Kenneth H. Yates

**DATA SHEET 2**
**VEHICLE TIRE IDENTIFICATION**

VEHICLE MAKE/MODEL/BODY STYLE: 2009 Audi A6 four-door passenger car

VEHICLE NHTSA NUMBER: C95800 VIN: WAUCH74F29N022298

LABORATORY: US DOT San Angelo Test Facility TEST DATE: April 24, 2009

All tires on the vehicle (excluding the spare) are the same size: ( X ) YES ( ) NO

Spare tire is the same size as all other tires: ( X ) YES ( ) NO

| **Tire Sidewall** | **Right Front** | **Left Rear** (If different) | **Spare Tire** (If different) |
|---|---|---|---|
| Manufacturer and Model | Continental ContiProContact | | |
| Tire Size Designation | 245/40R18 (Extra Load) | | |
| Load Index/Speed Symbol | 97H | | |
| Maximum Inflation Pressure | 350 kPa (51 psi) | | |
| Maximum Load Rating | 730 kg (1,609 lb) | | |
| Tread/Traction/Temperature | 400/A A/A | | |
| Tires Have "DOT" Markings | Yes | | |

Serial Number: Right Front AFUYNXH64108 Left Front AFUYNXH64108

Right Rear AFUYNXH64108 Left Rear AFUYNXH64108

Spare AFUYNXH64108

DATA INDICATES COMPLIANCE: PASS/FAIL: PASS

REMARKS: None

RECORDED BY: Todd P. Groghan DATE: April 24, 2009

APPROVED BY: Kenneth H. Yates

**DATA SHEET 3**
**VEHICLE RIM IDENTIFICATION**

VEHICLE MAKE/MODEL/BODY STYLE: 2009 Audi A6 four-door passenger car

VEHICLE NHTSA NUMBER: C95800 VIN: WAUCH74F29N022298

LABORATORY: US DOT San Angelo Test Facility TEST DATE: April 28, 2009

| **Rim Markings (if available):** | **Right Front** | **Left Rear** (if different) |
|---|---|---|
| Manufacturer's Name, Symbol or Trademark |  | |
| Rim Size | 8.0Jx18 | |
| Date of Manufacture |  | |
| Does Rim contain "DOT" symbol? (YES/NO) | No | |
| Other Rim Markings | See Figures 5.11, 5.12, 5.14, and 5.15 | |

Rim Inspection Comments: Rim markings are the same on RF and LR except for 'Q26' on RF and 'Q49' on LR

Tire Inspection Comments: None

| **Rim Size:** | **Tire Size** | **Measured Rim Width** | **Measured Rim Diameter** |
|---|---|---|---|
| Right Front Wheel | 245/40R18 | 8.0 in (20.3 cm) | 18.0 in (45.7 cm) |
| Left Rear Wheel | 245/40R18 | 8.0 in (20.3 cm) | 18.0 in (45.7 cm) |

Does stamped rim size (if available) agree with the measured rim size?
Right front rim: ( X )YES ( ) NO Left rear rim: ( X ) YES ( ) NO

Installed rims are suitable for installed tires? ( X )YES ( )NO
Reference document: 2008 European Tyre and Rim Technical Organisation Yearbook

DATA INDICATES COMPLIANCE: PASS/FAIL: PASS

REMARKS: None

RECORDED BY: Todd P. Groghan DATE: April 28, 2009

APPROVED BY: Kenneth H. Yates

**DATA SHEET 4 (1 of 2)**
**VEHICLE PLACARD**

VEHICLE MAKE/MODEL/BODY STYLE: 2009 Audi A6 four-door passenger car

VEHICLE NHTSA NUMBER: C95800 VIN: WAUCH74F29N022298

LABORATORY: US DOT San Angelo Test Facility TEST DATE: April 27, 2009

**Identification of Vehicle Labeling**

| | Yes/No | Location | PASS/FAIL |
|---|---|---|---|
| 1. Certification Label | Yes | Driver's side B pillar | PASS |
| 2. Vehicle Placard | Yes | Driver's side B pillar | PASS |
| 3. Tire Inflation Pressure Label | No | | |

**Vehicle Placard**

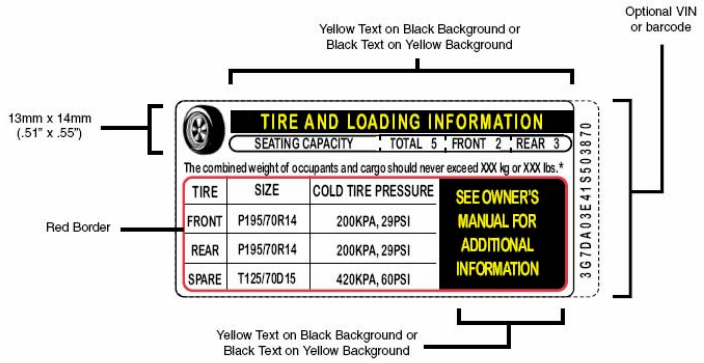



**FIGURE 1**
**(70 FR 14425)**

**Vehicle Placard** has the exact color and format as specified in Figure 1 and text is in the English language. ( X )YES ( )NO

**Vehicle Placard** is permanently affixed. ( X )YES ( )NO

**Vehicle Placard Information**:

Combined weight of occupants and cargo 500 kg (1,102 lb)

Seating Capacity: Total 5 FRONT 2 REAR 3

Is the number of belted seating positions the same as the labeled seating capacity? ( X )YES ( )NO

Is the tire size and pressure provided? ( X )YES ( )NO

**DATA SHEET 4 (2 of 2)**
**VEHICLE PLACARD**

**Vehicle Placard Tire Information:**

Tire size: Front 245/40R18 Rear 245/40R18

Tire Inflation Pressure: Front 270 kPa (39 psi) Rear 270 kPa (39 psi)

Are the sizes of the installed tires the same as the sizes of the labeled tires?
( X )YES ( )NO

Is the labeled cold tire inflation pressure equal to or less than the sidewall labeled maximum cold tire inflation pressure?

Front axle: ( X )YES ( )NO Rear axle: ( X )YES ( )NO

DATA INDICATES COMPLIANCE: PASS/FAIL: PASS

REMARKS: None

RECORDED BY: Todd P. Groghan DATE: April 27, 2009

APPROVED BY: Kenneth H. Yates

**DATA SHEET 5 (1 of 4)**
**CURB WEIGHT, NORMAL LOAD WEIGHT & MAXIMUM VEHICLE WEIGHT**

VEHICLE MAKE/MODEL/BODY STYLE: 2009 Audi A6 four-door passenger car

VEHICLE NHTSA NUMBER: C95800 VIN: WAUCH74F29N022298

LABORATORY: US DOT San Angelo Test Facility TEST DATE: April 28, 2009

Full Fluid Levels: Fuel Full Coolant Full Other Fluids* Full

* Brake fluid, transmission fluid, windshield washer fluid, & power steering fluid

Tire Pressures: (cold, prior to loading vehicle)
LF 270 kPa (39 psi) LR 270 kPa (39 psi)
RF 270 kPa (39 psi) RR 270 kPa (39 psi)

## A. MEASURED CURB WEIGHT WITH INSTALLED OPTIONS AND ACCESSORIES

LF 507 kg (1,117 lb) LR 376 kg (828 lb)
RF 500 kg (1,103 lb) RR 374 kg (824 lb)

Front Axle 1,007 kg (2,220 lb) Rear Axle 750 kg (1,652 lb)

Total Vehicle 1,757 kg (3,872 lb)

## B. MEASURED VEHICLE NORMAL LOAD WEIGHT

(1) Seating Capacity from Vehicle Placard = 5

(2) Normal Load Number of Occupants (Table in Section 10) = 3

Occupant Distribution: Front Seat 2 Second Seat 1

(3) Total Normal Occupant Load: 204 kg (450 lb)
[# of occupants x 68 KG per occupant]

(4) Measured Normal Load on Axles:

LF 551 kg (1,215 lb) LR 434 kg (957 lb)
RF 545 kg (1,201 lb) RR 430 kg (949 lb)

Front Axle 1,096 kg (2,416 lb) Rear Axle 864 kg (1,906 lb)

Total Vehicle 1,960 kg (4,322 lb)

**DATA SHEET 5 (2 of 4)**
**CURB WEIGHT, NORMAL LOAD WEIGHT & MAXIMUM VEHICLE WEIGHT**

(5) Calculated Vehicle Normal Load on the Tire:

Front Tires [measured front axle normal load/2] = 548 kg (1,208 lb)
Rear Tires [measured rear axle normal load/2] = 432 kg (953 lb)

(6) Calculated 94% of tire load rating at recommended cold inflation pressure:

Load rating at recommend cold inflation pressure= 690 kg (1,521 lb)
94% of load rating = 649 kg (1,430 lb)

Vehicle Normal Load on the Tire must not be greater than 94% of Load Rating Value.

| | | PASS/FAIL |
|---|---|---|
| [B.(5)<B.(6)] | Front Tires | PASS |
| | Rear Tires | PASS |

## C. MEASURED VEHICLE WEIGHT WITH FULL OCCUPANT LOAD

(1) Seating Capacity from Placard:

Total 5 FRONT 2 REAR 3

(2) Full Occupant Load: 340 kg (750 lb)
[# of total occupants from C.(1) x 68 KG per occupant]

(3) Measured Vehicle Weight with Full Occupant Load:

| | | | |
|---|---|---|---|
| LF | 567 kg (1,249 lb) | LR | 488 kg (1,076 lb) |
| RF | 558 kg (1,230 lb) | RR | 484 kg (1,067 lb) |
| Front Axle | 1,125 kg (2,479 lb) | Rear Axle | 972 kg (2,143 lb) |

Total Vehicle 2,097 kg (4,622 lb)

**DATA SHEET 5 (3 of 4)**
**CURB WEIGHT, NORMAL LOAD WEIGHT & MAXIMUM VEHICLE WEIGHT**

## D. MEASURED MAXIMUM VEHICLE LOAD WEIGHT

(1) Vehicle Capacity Weight (from placard): 500 kg (1,102 lb)

(2) Full Occupant Load (from C.(2)): 340 kg (750 lb)

(3) Luggage/Cargo Load (subtract (2) from (1)): 160 kg (352 lb)

(4) Measured Vehicle Maximum Load on Axles:

| | | | |
|---|---|---|---|
| LF | 554 kg (1,221 lb) | LR | 581 kg (1,281 lb) |
| RF | 545 kg (1,202 lb) | RR | 576 kg (1,270 lb) |
| Front Axle | 1,099 kg (2,423 lb) | Rear Axle | 1,157 kg (2,551 lb) |

Total Vehicle 2,256 kg (4,974 lb)

(5) Calculated Vehicle Maximum Load on the Tire:

Front Tires [measured front axle maximum load/2]= 550 kg (1,212 lb)

Rear Tires [measured rear axle maximum load/2] = 579 kg (1,276 lb)

(6) Tire Sidewall Maximum Load Ratings:

| | Front | Rear |
|---|---|---|
| Installed Tire Size | 245/40R18 | 245/40R18 |
| Max Load Rating on Sidewall | 730 kg (1,609 lb) | 730 kg (1,609 lb) |

Vehicle Maximum Load on the tire must not be greater than the Maximum Load Rating Marked on the Tire Sidewall.

| | | PASS/FAIL |
|---|---|---|
| [D.(5)<D.(6)] | Front Tires | PASS |
| | Rear Tires | PASS |

**DATA SHEET 5 (4 of 4)**
**CURB WEIGHT, NORMAL LOAD WEIGHT & MAXIMUM VEHICLE WEIGHT**

(7) Tire Load Ratings at Vehicle Placard or Tire Inflation Pressure Label Recommended Cold Tire Inflation Pressure.

| | Front Axle | Rear Axle |
|---|---|---|
| Labeled Tire Size | 245/40R18 | 245/40R18 |
| Labeled Cold Inflation Pressure | 270 kPa (39 psi) | 270 kPa (39 psi) |
| Load Rating at This Pressure* | 690 kg (1,521 lb) | 690 kg (1,521lb) |

*Reference used to obtain Load Rating: 2008 European Tyre and Rim Technical Organisation Yearbook

Vehicle Normal Load on the Tire must not be greater than the Tire Load Rating at the Labeled Cold Tire Inflation Pressure.

| | | PASS/FAIL |
|---|---|---|
| [B.(5)<D.(7)] | Front Tires | PASS |
| | Rear Tires | PASS |

Vehicle Maximum Load on the tire must not be greater than the Tire Load Rating at the Labeled Cold Tire Inflation Pressure.

| | | PASS/FAIL |
|---|---|---|
| [D.(5)<D.(7)] | Front Tires | PASS |
| | Rear Tires | PASS |

DATA INDICATES COMPLIANCE: PASS/FAIL: PASS

REMARKS: None

RECORDED BY: Todd P. Groghan DATE: April 28, 2009

APPROVED BY: Kenneth H. Yates

**DATA SHEET 6 (1 of 2)**
**OWNER'S MANUAL REQUIREMENTS**

VEHICLE MAKE/MODEL/BODY STYLE: 2009 Audi A6 four-door passenger car

VEHICLE NHTSA NUMBER: C95800 VIN: WAUCH74F29N022298

LABORATORY: US DOT San Angelo Test Facility TEST DATE: April 24, 2009

**Owner's Manual Discusses:**

| Part 575.6(a) Paragraph | Required Discussion Topic | Discussed in Manual? (YES/NO) | Page Numbers |
|---|---|---|---|
| (4)(i) | Tire labeling, including a description and explanation of each marking on the tires provided with the vehicle, and information about the location of the Tire Identification Number (TIN). | Yes | 329 - 333 |
| (4)(ii) | (A) Description and explanation of recommended cold tire inflation pressure. | Yes | 321 - 323 |
| | (B) Description and explanation of FMVSS 110 Vehicle Placard and Tire Inflation Pressure Label and their location(s). | Yes | 321 - 323 |
| | (C) Description and explanation of adverse safety consequences of under-inflation including tire failure. | Yes | 321 |
| | (D) Description and explanation for measuring and adjusting air pressure to achieve proper inflation. | Yes | 323 - 325 |
| (4)(iii) | Glossary of tire terminology, including "cold tire pressure," maximum inflation pressure," and "recommended inflation pressure," and all non-technical terms defined in S3 of FMVSS 110 & 139. | Yes | 318 - 321 |
| (4)(iv) | Tire care, including maintenance and safety practices. | Yes | 323 - 325, 327, 328 |
| (4)(v) | (A) Description and explanation of locating and understanding load limit information, total load capacity, seating capacity, towing capacity, and cargo capacity. | Yes | 325 - 327 |
| | (B) Description and explanation for calculating total and cargo load capacities with varying seating configurations including quantitative examples showing/illustrating how the vehicle's cargo and luggage capacity decreases as the combined number and size of occupants increases. | Yes | 326, 327 |
| | (C) Description and explanation for determining compatibility of tire and vehicle load capabilities. | Yes | 325, 326 |
| | (D) Description and explanation of adverse safety consequences of overloading on handling and stopping and on tires. | Yes | 323, 326, 321 |

**DATA SHEET 6 (2 of 2)**
**OWNER'S MANUAL REQUIREMENTS**

**The following statement, in the English language, is provided verbatim in the Owner's Manual. Reference Part 575.6(a)(5) YES ( X ) NO ( )**

Steps for Determining Correct Load Limit --
(1) Locate the statement "The combined weight of occupants and cargo should never exceed XXX kg or XXX lbs." on your vehicle's placard.
(2) Determine the combined weight of the driver and passengers that will be riding in your vehicle.
(3) Subtract the combined weight of the driver and passengers from XXX kg or XXX lbs.
(4) The resulting figure equals the available amount of cargo and luggage load capacity. For example, if the "XXX" amount equals 1400 lbs. and there will be five 150 lb passengers in your vehicle, the amount of available cargo and luggage load capacity is 650 lbs. (1400-750 (5x150) = 650 lbs.)
(5) Determine the combined weight of the luggage and cargo being loaded on the vehicle. That weight may not safely exceed the available cargo and luggage load capacity calculated in Step 4.
(6) If your vehicle will be towing a trailer, load from your trailer will be transferred to your vehicle. Consult this manual to determine how this reduces the available cargo and luggage load capacity of your vehicle.

DATA INDICATES COMPLIANCE: PASS/FAIL: PASS

REMARKS: None

RECORDED BY: Todd P. Groghan DATE: April 24, 2009

APPROVED BY: Kenneth H. Yates

SECTION 4

TEST EQUIPMENT LIST AND CALIBRATION INFORMATION

| **EQUIPMENT** | **DESCRIPTION** | **MODEL/ SERIAL NO** | **CAL. DATE** | **NEXT CAL. DATE** |
|---|---|---|---|---|
| PLATFORM SCALE (BALLAST) | HOWE RICHARDSON | MODEL #6401 SERIAL #0181-5509-26 | 8/5/2008 | 8/5/2009 |
| AIR PRESSURE GAUGE | ASHCROFT GENERAL PURPOSE DIGITAL GAUGE | MODEL #D1005PS 02L 100 PSI SERIAL #20017398-01 | 11/20/2008 | 11/20/2009 |
| FLOOR SCALES (VEHICLE) | INTERCOMP SW DELUXE SCALES | PART #100156 SERIAL #27032382 | 8/5/2008 | 8/5/2009 |

SECTION 5

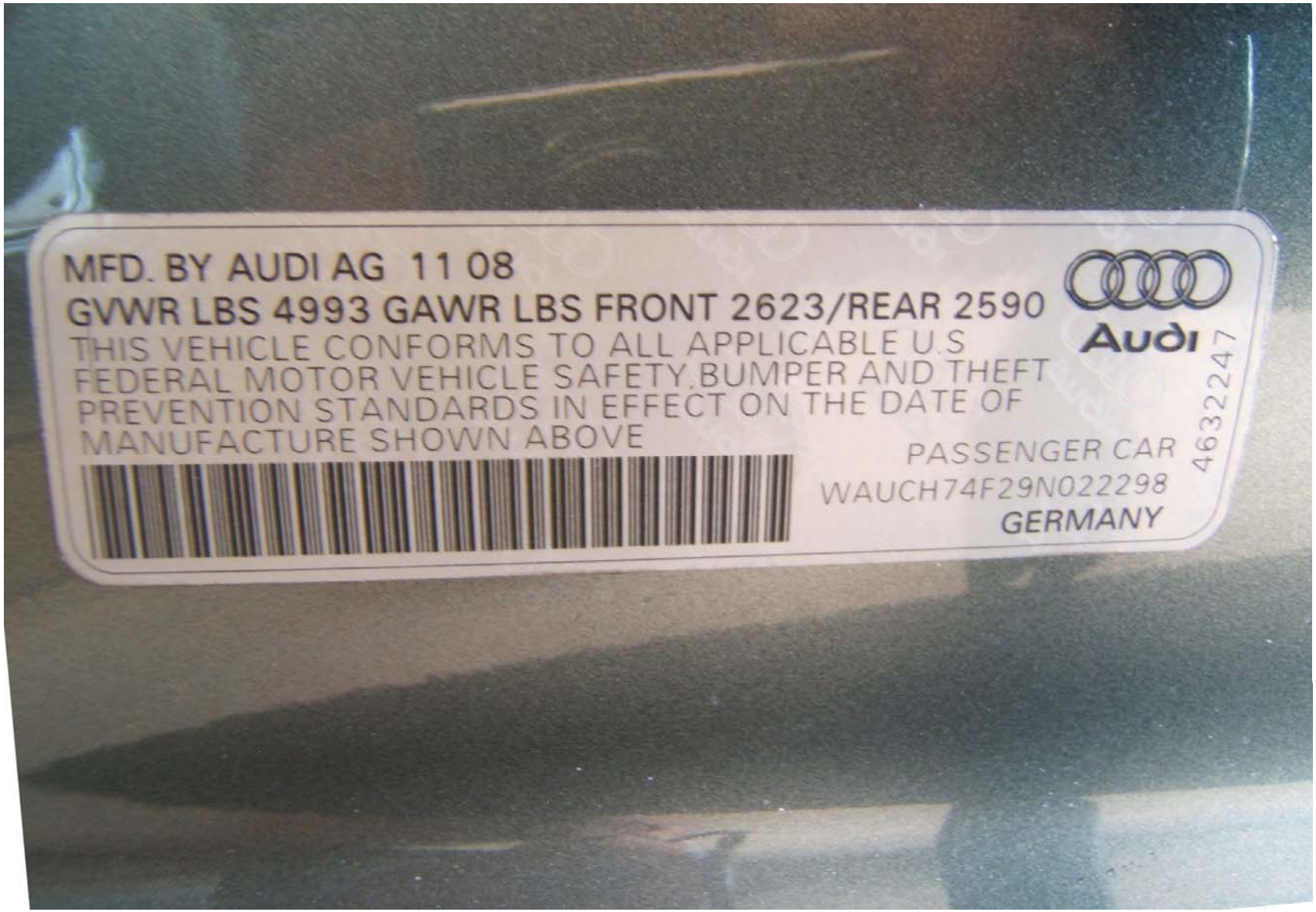
PHOTOGRAPHS

2009 AUDI A6
NHTSA NO. C95800
FMVSS 110

FIGURE 5.1
¾ FRONT VIEW FROM LEFT SIDE OF VEHICLE

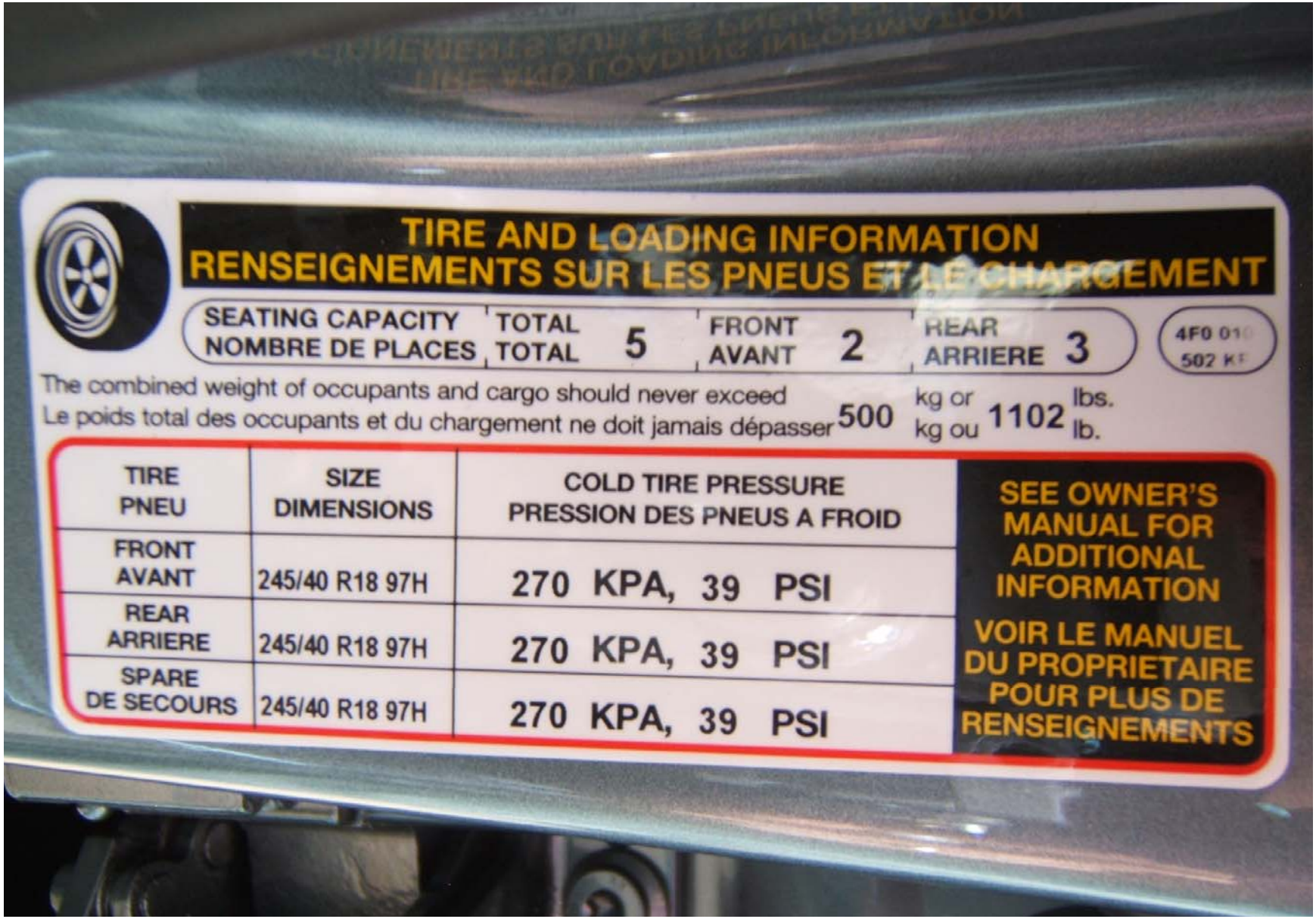
2009 AUDI A6
NHTSA NO. C95800
FMVSS 110

FIGURE 5.2
¾ REAR VIEW FROM RIGHT SIDE OF VEHICLE




2009 AUDI A6
NHTSA NO. C95800
FMVSS 110

FIGURE 5.3
VEHICLE CERTIFICATION LABEL




2009 AUDI A6
NHTSA NO. C95800
FMVSS 110

FIGURE 5.4
VEHICLE PLACARD


2009 AUDI A6
NHTSA NO. C95800
FMVSS 110

FIGURE 5.5
TIRE SHOWING BRAND


2009 AUDI A6
NHTSA NO. C95800
FMVSS 110

FIGURE 5.6
TIRE SHOWING MODEL


2009 AUDI A6
NHTSA NO. C95800
FMVSS 110

FIGURE 5.7
TIRE SHOWING SIZE, LOAD INDEX, AND SPEED SYMBOL


2009 AUDI A6
NHTSA NO. C95800
FMVSS 110

FIGURE 5.8
TIRE SHOWING MAX INFLATION
PRESSURE AND MAX LOAD RATING


2009 AUDI A6
NHTSA NO. C95800
FMVSS 110

FIGURE 5.9
TIRE SHOWING SERIAL NUMBER


2009 AUDI A6
NHTSA NO. C95800
FMVSS 110

FIGURE 5.10
RIM CONTOUR FOR FULL WIDTH OF CROSS SECTION


2009 AUDI A6
NHTSA NO. C95800
FMVSS 110

FIGURE 5.11
RIM SHOWING SIZE AND OTHER RIM MARKINGS


2009 AUDI A6
NHTSA NO. C95800
FMVSS 110

FIGURE 5.12
RIM SHOWING MANUFACTURER'S
SYMBOL AND OTHER RIM MARKING


2009 AUDI A6
NHTSA NO. C95800
FMVSS 110

FIGURE 5.13
RIM SHOWING DATE OF MANUFACTURER


2009 AUDI A6
NHTSA NO. C95800
FMVSS 110

FIGURE 5.14
RIM SHOWING OTHER RIM MARKINGS


2009 AUDI A6
NHTSA NO. C95800
FMVSS 110

FIGURE 5.15
RIM SHOWING OTHER RIM MARKINGS

2009 AUDI A6
NHTSA NO. C95800
FMVSS 110

FIGURE 5.16
VEHICLE FRONT SEAT BALLASTED FOR
NORMAL AND MAXIMUM LOADS

2009 AUDI A6
NHTSA NO. C95800
FMVSS 110

FIGURE 5.17
VEHICLE REAR SEAT BALLASTED
FOR NORMAL LOAD

2009 AUDI A6
NHTSA NO. C95800
FMVSS 110

FIGURE 5.18
VEHICLE REAR SEAT BALLASTED
FOR MAXIMUM LOAD


2009 AUDI A6
NHTSA NO. C95800
FMVSS 110

FIGURE 5.19
VEHICLE TRUNK BALLASTED
FOR MAXIMUM LOAD


2009 AUDI A6
NHTSA NO. C95800
FMVSS 110

FIGURE 5.20
VEHICLE ON WEIGHT SCALES