SAFETY COMPLIANCE TESTING FOR
FMVSS NO. 110
TIRE SELECTION AND RIMS

VOLKSWAGEN AG GERMANY
2005 VOLKSWAGEN PASSAT, 4-DOOR PASSENGER CAR
NHTSA NO. C55800

GENERAL TESTING LABORATORIES, INC.
1623 LEEDSTOWN ROAD
COLONIAL BEACH, VIRGINIA 22443

JULY 5, 2005
FINAL REPORT

PREPARED FOR
U.S. DEPARTMENT OF TRANSPORTATION
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION
ENFORCEMENT
OFFICE OF VEHICLE SAFETY COMPLIANCE
440 SEVENTH STREET, SW
ROOM 6111 (MVSS-220)
WASHINGTON, D.C. 20590
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Approved By: [Signature]

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Final Report of FMVSS 110 Compliance Testing of 2005 VOLKSWAGEN PASSAT PASSENGER CAR
NHTSA No. C58800

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**Abstract**
Compliance tests were conducted on the subject 2005 Volkswagen Passat passenger car in accordance with the specifications of the Office of Vehicle Safety Compliance Test Procedure No. TP-110-02 for the determination of FMVSS 110 compliance. Test failures identified were as follows:
NONE

**Key Words**
Compliance Testing
Safety Engineering
FMVSS 110

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SECTION 1
INTRODUCTION

1.0 PURPOSE OF COMPLIANCE TEST

A 2005 Volkswagen Passat 4-door passenger car was subjected to FMVSS No. 110 testing to determine if the vehicle was in compliance with the requirements of the standard. All tests were conducted in accordance with NHTSA, Office of Vehicle Safety Compliance (OVSC) Laboratory Procedure, TP-110-02 dated 14 December 1989 and General Testing Laboratories, Inc (GTL) Test Procedure, TP-110-02 dated 22 May 2002.

1.1 TEST VEHICLE

The test vehicle was a 2005 Volkswagen Passat 4-door passenger car. Nomenclature applicable to the test vehicle are:

A. Vehicle Identification Number: WVWME63B15P023983

B. NHTSA No.: C55800

C. Manufacturer: VOLKSWAGEN AG GERMANY

D. Manufacture Date: 09/04

1.2 TEST DATE

The test vehicle was subjected to FMVSS No. 110 testing during the time period May 24 through May 31, 2005.
SECTION 2
TEST PROCEDURE AND SUMMARY OF RESULTS

2.0 GENERAL

The 2005 Volkswagen Passat 4-door passenger car, NHTSA No. C55800, was subjected to FMVSS No. 110 testing during the time period May 24 through May 31, 2005.

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 as required by the DOT/NHTSA and GTL test procedures. 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. The vehicle normal load as well as the maximum load on each wheel were measured. Data from each tire furnished with the vehicle were recorded. The vehicle tire placard was surveyed and photographed. Required dimensional data and other identifying data for the left front and right rear rims were obtained. The contour of the aforementioned rims was documented photographically.

In preparation for the deflated tire retention test, test instrumentation was installed in the vehicle. With the driver aboard, the vehicle was ballasted to equal the "vehicle maximum load on the tire" on the front and rear axle, as previously established. The tire pressure of all tires was adjusted to placard specifications for cold tire inflation at maximum loaded vehicle weight. The deflated tire retention test was then conducted on the left front tire followed by the right rear tire. The tests were conducted with the vehicle traveling in a straight line at 85.5 kph (53 mph). The respective tire was blown by an explosive charge on the tire's sidewall. Test data collected during the test included vehicle speed, deceleration, stopping distance, distance of uncontrolled deviation from a straight line and tire pressure. After the vehicle was stopped, any tire bead separation from the rim flange was documented photographically.

2.2 SUMMARY OF RESULTS

The test vehicle appears to be in compliance with the requirements of FMVSS No. 110.
SECTION 3

TEST DATA
DATA SHEET 1

VEHICLE MAKE/MODEL/BODY STYLE: 2005 VOLKSWAGEN PASSAT PASSENGER CAR
VEHICLE NHTSA NO.: C55800 ; VIN: WVWME63B15P0........
LABORATORY: GENERAL TESTING LABORATORIES
TEST DATE: 06/24/05

REQUIREMENT

TIREE LOAD LIMITS AND PLACARD

The vehicle is equipped with tires that meet the requirements of FMVSS 109. (FMVSS 110, S4.1) PASS

The vehicle maximum load on the tire shall not be greater than the applicable maximum load rating as marked on the sidewall of the tire. (FMVSS 110, S4.2.1) PASS

The vehicle normal load on the tire shall not be greater than the high speed performance test load specified in FMVSS 109 paragraph S5.5. (FMVSS 110, S4.2.2) PASS

The placard must be permanently affixed to the glove compartment door or equally accessible location; and display the required information. (FMVSS 110, S4.3) PASS

No inflation pressure other than the maximum permissible inflation pressure is specified unless as required. (FMVSS 110, S4.3.1) PASS

RIM DIMENSIONS

Each rim shall be constructed to the dimensions of a rim or alternate specified for the tire size. (FMVSS No. 110, S4.4.1 (a)) PASS

DEFLATED TIRE RETENTION

Each rim shall retain the deflated tire until the vehicle can be stopped. (FMVSS 110, S4.4.1(b)) PASS

Statement of indication of compliance or noncompliance to FMVSS 110 and data reference: THE VOLKSWAGEN PASSAT APPEARS TO COMPLY WITH THE REQUIREMENTS OF FMVSS 110.

REMARKS:

RECORDED BY: [Signature] DATE: 05/24/05
APPROVED BY: [Signature]
DATA SHEET 2
TEST VEHICLE INFORMATION/RECEIVING INSPECTION

LABORATORY: GENERAL TESTING LABORATORIES  DATE: 05/24/05

VEHICLE MODEL YEAR/MAKE/MODEL/BODY STYLE: 2005 VOLKSWAGEN PASSAT

MANUFACTURE DATE: 09/04  NHTSA NO.: C55800  BODY COLOR: RED

VIN: WVMME63B15P[redacted]  VEHICLE TYPE: PASSENGER CAR

GVWR 2070 kg (4664 lbs)  GAWR(Fr) 1110 kg (2449 lbs)  GAWR(Re) 990 kg (2183 lbs)

BELTED SEATING POSITIONS: FRONT 2  MID N/A  REAR 3  OTHER N/A

ENGINE DATA: 4 Cylinders  2.0 Liters  ____ Cubic Inches

TRANSMISSION DATA: X Automatic  ____ Manual  6 No. of Speeds

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

INSTALLED TIRE DATA: Size: P195/65R16  Mfr. - CONTINENTAL

CHECK APPROPRIATE BOXES FOR VEHICLE EQUIPMENT/MAKE SURE ALL OPTIONS ON WINDOW STICKER ARE LISTED:

<table>
<thead>
<tr>
<th></th>
<th>Traction Control</th>
<th>Cruise Control</th>
<th>Clock</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air Conditioning</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>X Tinted Glass</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>X Power Steering</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>X Power Windows</td>
<td>X</td>
<td>X Rear Window Defroster</td>
<td>X Driver Air Bag</td>
</tr>
<tr>
<td>X Power Door Locks</td>
<td></td>
<td>Sun Roof or T-Top</td>
<td>X Passenger Air Bag</td>
</tr>
<tr>
<td>X Power Seat(s)</td>
<td>X</td>
<td>Tachometer</td>
<td>X Front Disc Brakes</td>
</tr>
<tr>
<td>X Power Brakes</td>
<td>X</td>
<td>Tilt Steering Wheel</td>
<td>X Rear Disc Brakes</td>
</tr>
<tr>
<td>X Antilock Brake System</td>
<td>X</td>
<td>AM/FM/CO</td>
<td>Other -</td>
</tr>
</tbody>
</table>

REMARKS:

RECORDED BY: [Signature]  DATE: 05/24/05

APPROVED BY: [Signature]
DATA SHEET 3
CURB WEIGHT WITH OPTIONS, NORMAL LOAD, VEHICLE MAXIMUM LOAD

VEHICLE MAKE/MODEL/BODY STYLE: 2005 VOLKSWAGEN PASSAT PASSENGER CAR
VEHICLE NHTSA NO.: C558000; VIN: 4VWME63B15P444444
LABORATORY: GENERAL TESTING LABORATORIES
TEST DATE: 05/24/05

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

Tire Pressure:
LF 250 KPA (36 psi) LR 300 KPA (44 psi)
RF 250 KPA (36 psi) RR 300 KPA (44 psi)

A. MEASURED CURB WEIGHT WITH INSTALLED OPTIONS AND ACCESSORIES

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>WF</td>
<td>473 KG (1042 LB)</td>
</tr>
<tr>
<td>RF</td>
<td>488 KG (1075 LB)</td>
</tr>
<tr>
<td>Front Axle</td>
<td>960 KG (2117 LB)</td>
</tr>
<tr>
<td>Rear Axle</td>
<td>591 KG (1302 LB)</td>
</tr>
</tbody>
</table>

Total Vehicle 1551 KG (3419 LB)

B. VEHICLE NORMAL LOAD ON THE TIRE

1. Seating Capacity (from Tire Information Placard) = 5
2. Normal Load # of Occupants from FMVSS 110, Table 1 = 3
   Occupant Distribution: Front Seat- 2, Second Seat- 1, Third Seat - N/A, Fourth Seat- N/A
3. Total Normal Occupant Load 204 KG (450 LB)
   (# of occupants x 68 KG per occupant)
4. Measured Normal Load on Axles
   LF 521 KG (1148 LB) LR 354 KG (780 LB)
   RF 538 KG (1186 LB) RR 343 KG (756 LB)
   Frt Axle 1058 KG (2333 LB) Rr Axle 687 KG (1536 LB)

Total Vehicle 1755 KG (3888 LB)
DATA SHEET 3 – CONTINUED

(5) Calculated Vehicle Normal Load on the Tire
Front Tires (measured front axle normal load/2) = 529 KG (1167 LB)
Rear Tires (measured rear axle normal load/2) = 348 KG (768 LB)

(6) High Speed Test Load from FMVSS 109 (S5.5)

<table>
<thead>
<tr>
<th>Front</th>
<th>Rear</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installed Tire Size:</td>
<td>P195/65R15</td>
</tr>
<tr>
<td>Max. Load Rating on Sidewall:</td>
<td>615 KG (1356 LBS)</td>
</tr>
<tr>
<td>High Speed Test Load (68% of sidewall max. load rating):</td>
<td>541 KG (1193 LBS)</td>
</tr>
<tr>
<td>Optional Tire Size(s):</td>
<td>NONE</td>
</tr>
<tr>
<td>Max. Load Rating on Sidewall (Obtain from approved reference manual):</td>
<td>N/A</td>
</tr>
<tr>
<td>High Speed Test Load (68% of sidewall max. load rating):</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Vehicle Normal Load on the Tire is not greater than the High Speed Test Load

<table>
<thead>
<tr>
<th>Installed Tires:</th>
<th>Front Tires</th>
<th>Rear Tires</th>
</tr>
</thead>
<tbody>
<tr>
<td>[(5) &lt; (6)]</td>
<td>PASS</td>
<td>PASS</td>
</tr>
</tbody>
</table>

C. MEASURED VEHICLE WITH FULL OCCUPANT LOAD

<table>
<thead>
<tr>
<th></th>
<th>LF</th>
<th>LR</th>
<th>RF</th>
<th>RR</th>
<th>Front Axle</th>
<th>Rear Axle</th>
<th>Total Vehicle</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>549 KG (1211 LB)</td>
<td>412 KG (908 LB)</td>
<td>550 KG (1212 LB)</td>
<td>380 KG (838 LB)</td>
<td>1099 KG (2423 LB)</td>
<td>792 KG (1746 LB)</td>
<td>1891 KG (4189 LB)</td>
</tr>
</tbody>
</table>
DATA SHEET 3 – CONTINUED

D. VEHICLE MAXIMUM LOAD ON THE TIRE

(1) Vehicle Capacity Weight (from Placard) 484 KG (1088 LB)

(2) Seating Capacity (from Placard) 5

(3) Total Occupant Load (seating capacity x 68 KG) 340 KG (750 LB)

(4) Luggage/Cargo Load (Subtract (3) from (1)) 144 KG (318 LB)

(5) Measured Maximum Load on Axles

<p>| | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LF</td>
<td>530 KG (1166 LB)</td>
<td>LR</td>
<td>481 KG (1060 LB)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RF</td>
<td>554 KG (1221 LB)</td>
<td>RR</td>
<td>471 KG (1038 LB)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Frt Axle</td>
<td>1084 KG (2389 LB)</td>
<td>Rr Axle</td>
<td>952 KG (2098 LB)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Total Vehicle 2035 KG (4487 LB)

(6) Calculated Vehicle Maximum Load on the Tire

Front Tires (measured front axle max. load/2) = 542 KG (1195 LB)
Rear Tires (measured rear axle max. load/2) = 474 KG (1045 LB)

(7) Maximum Load Rating on Tire Sidewall (obtain data from B.(6))

Front

Installed Tire Size P195/65R15
Max. Load Rating on Sidewall 615 KG (1356 LBS)
Optional Tire Size(s) N/A
Max. Load Rating on Sidewall N/A

Rear

Installed Tire Size P195/65R15
Max. Load Rating on Sidewall 615 KG (1356 LBS)
Optional Tire Size(s) N/A
Max. Load Rating on Sidewall N/A

Vehicle Maximum Load on the Tire is not greater than the Maximum Load Rating Marked on the Tire Sidewall

Installed Tires; ((6) < (7))
Front Tires PASS
Rear Tires PASS

Optional Tires; ((6) < (7))
Front Tires N/A
Rear Tires N/A
E. VEHICLE LOAD ON THE TIRE FOR OTHER DISPLAYED LOAD AND TIRE INFLATION
PRESSURE CONDITIONS

(1) Condition Description (Load, Tire Size, Inflation Pressure)
Vehicle at maximum load of 2035 kg (4487 lbs) with P195/65R15 tire at
250 kPa (36 psi) front and 300 kPa (44 psi) rear on tire label.

(2) Condition Load on Tire/Axle – Maximum Load

<table>
<thead>
<tr>
<th></th>
<th>LF</th>
<th>KG (LB)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>530</td>
<td>1168</td>
</tr>
<tr>
<td>RF</td>
<td>554</td>
<td>1221</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>LR</th>
<th>KG (LB)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>481</td>
<td>1060</td>
</tr>
<tr>
<td>RR</td>
<td>471</td>
<td>1038</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Frt Axle</th>
<th>KG (LB)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1084</td>
<td>2399</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Rr Axle</th>
<th>KG (LB)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>952</td>
<td>2098</td>
</tr>
</tbody>
</table>

Total Vehicle 2035 KG (4487 LB)

(3) Load Rating of Tire at Recommended Inflation Pressure

<table>
<thead>
<tr>
<th></th>
<th>Front</th>
<th>Rear</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Displayed Tire Size</td>
<td>P195/65R15</td>
</tr>
<tr>
<td></td>
<td>Recommended Inflation Pressure</td>
<td>250 kPa (36 psi)</td>
</tr>
<tr>
<td></td>
<td>Tire Load Rating</td>
<td>587 KG (1294 LBS)</td>
</tr>
</tbody>
</table>

Vehicle Load on the Tire is not greater than the Tire Load Rating at the Tire Recommended
Inflation Pressure

Front Tires [(2) < (3)] PASS/FAIL
Rear Tires [(2) < (3)] PASS

NOTE: Section E should be repeated for every different load/tire Inflation pressure condition
displayed.

REMARKS:

RECORDED BY: [Signature]

DATE: 05/24/05

APPROVED BY: [Signature]
**DATA SHEET 4**

**TIRE INFORMATION LABEL OR PLACARD**

**VEHICLE MAKE/MODEL/BODY STYLE:** 2005 VOLKSWAGEN PASSAT PASSENGER CAR  
**VEHICLE NHTSA NO.:** 055800  
**VIN:** WVWME63B15R109901  
**LABORATORY:** GENERAL TESTING LABORATORIES  
**TEST DATE:** 05/24/05

<table>
<thead>
<tr>
<th>A. Description of Placard:</th>
<th>Pass/Fail</th>
<th>Pass</th>
</tr>
</thead>
<tbody>
<tr>
<td>Self Adhesive decal – Red, Black</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Yellow and White</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>B. Description of Placard Location:</th>
<th>Pass/Fail</th>
<th>Pass</th>
</tr>
</thead>
<tbody>
<tr>
<td>Driver's &quot;B&quot; pillar</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Permanently Affixed  
(X) YES  
( ) NO

<table>
<thead>
<tr>
<th>C. Enter Information from Placard:</th>
<th>Pass/Fail</th>
<th>Pass</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vehicle Capacity Weight -</td>
<td>484 KG (1088 LBS)</td>
<td></td>
</tr>
<tr>
<td>Designated Seating Capacity (DSC) -</td>
<td>5</td>
<td>Pass</td>
</tr>
<tr>
<td>Expressed In—</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(1) Total No. of Occupants</td>
<td>(X) Yes ( ) No</td>
<td></td>
</tr>
<tr>
<td>(2) Terms of Occupants for Each Seat Location</td>
<td>(X) YES ( ) NO</td>
<td>Pass</td>
</tr>
</tbody>
</table>

Manufacturer's Recommended Cold Tire Inflation Pressure  
for Maximum Load Vehicle Weight:

<table>
<thead>
<tr>
<th>FRONT -</th>
<th>250 kPa (36 psi)</th>
<th>REAR -</th>
<th>300 kPa (44 psi)</th>
</tr>
</thead>
</table>

**All Other Recommended Inflation Pressures:**  
None

**All Other Recommended Loading Conditions:**  
None

**Manufacturer's Recommended Size Designation:**  
P195/65R15

**All Other Manufacturer's Recommended Size Designation:**  
NONE

**DATA CORRECTLY DISPLAYED**  
Pass
D. For Every Inflation Pressure Listed Above Indicate:

(1) Less than Maximum? (YES/NO) Yes — Pass
(2) Loading Condition Stated? (YES/NO) Yes — Pass

DATA INDICATES COMPLIANCE (X) YES ( ) NO

REMARKS:

RECORDED BY: [Signature] DATE: 05/24/05
APPROVED BY: [Signature]
**DATA SHEET 5**  
**VEHICLE TIRE DATA**

**VEHICLE MAKE/MODEL/BODY STYLE:** 2005 VOLKSWAGEN PASSAT PASSENGER CAR  
**VEHICLE NHTSA NO.:** C55800  
**VIN:** WVWME63B15PD000000  
**LABORATORY:** GENERAL TESTING LABORATORIES  
**TEST DATE:** 05/24/05

All tires on the vehicle are the same size:  
(Yes/No)  
Yes

**INFORMATION FROM TIRE SIDEWALL:**

<table>
<thead>
<tr>
<th></th>
<th>Front Axle (R.F. Tire)</th>
<th>Rear Axle (L.R. Tire)</th>
<th>Spare</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tire Size Designation</td>
<td>P195/65R15</td>
<td>P195/65R15</td>
<td>P195/65R15</td>
</tr>
<tr>
<td>Tire Load Index/Speed Symbol</td>
<td>91H</td>
<td>91H</td>
<td>91H</td>
</tr>
<tr>
<td>Maximum Inflation Pressure</td>
<td>300 kPa (44 psi)</td>
<td>300 kPa (44 psi)</td>
<td>300 kPa (44 psi)</td>
</tr>
<tr>
<td>Maximum Load Rating</td>
<td>615 KG (1350 LBS)</td>
<td>615 KG (1350 LBS)</td>
<td>615 KG (1350 LB)</td>
</tr>
<tr>
<td>Mfr. Name or Brand &amp; Code</td>
<td>CONTINENTAL</td>
<td>CONTINENTAL</td>
<td>CONTINENTAL</td>
</tr>
<tr>
<td>Tube or Tubeless</td>
<td>Tubeless</td>
<td>Tubeless</td>
<td>Tubeless</td>
</tr>
<tr>
<td>Sidewall (Plies &amp; Composition)</td>
<td>1 polyester</td>
<td>1 polyester</td>
<td>1 polyester</td>
</tr>
<tr>
<td>Tread (Plies &amp; Composition)</td>
<td>2 steel</td>
<td>2 steel</td>
<td>2 steel</td>
</tr>
<tr>
<td></td>
<td>1 polyester</td>
<td>1 polyester</td>
<td>1 polyester</td>
</tr>
<tr>
<td></td>
<td>1 nylon</td>
<td>1 nylon</td>
<td>1 nylon</td>
</tr>
</tbody>
</table>

**Serial Number:**  
- Left Front - DOT CNPC PXBU 2004  
- Right Front - DOT CNPC PXBU 2004  
- Left Rear - DOT CNPC PXBU 2004  
- Right Rear - DOT CNPC PXBU 2004  
- Spare - DOT CNPC PXBU 2004

Tires have "DOT" markings:  
(X) YES  
( ) NO

**REMARKS:**

**RECORDED BY:**  
[Signature]  
**DATE:** 05/24/05

**APPROVED BY:**  
[Signature]  
[Signature]
DATA SHEET 8
RIM DIMENSIONS

VEHICLE MAKE/MODEL/BODY STYLE: 2005 VOLKSWAGEN PASSAT PASSENGER CAR
VEHICLE NHTSA NO.: C55800  VIN: WVWME63B15FXXXXXXXX
LABORATORY: GENERAL TESTING LABORATORIES
TEST DATE: 05/24/05

A. Rim Size & Flange

<table>
<thead>
<tr>
<th>Tire Size</th>
<th>Spec'd. Rims</th>
<th>Measured Width of Rims</th>
<th>Measured Height of Rims</th>
<th>PASS/FAIL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Right Front: P195/65R15</td>
<td>5.5 to 7.0J</td>
<td>6.0&quot;</td>
<td>15&quot;</td>
<td>Pass</td>
</tr>
<tr>
<td>Left Rear: P195/65R15</td>
<td>5.5 to 7.0J</td>
<td>6.0&quot;</td>
<td>15&quot;</td>
<td>Pass</td>
</tr>
</tbody>
</table>

REFERENCE USED: 2005 Tire and Rim Association Yearbook

B. Trade Stamps, Marks, Symbols: VW, DE, 05/04,3BO.601.027D

Rim Manufacturer's Name or Label: VW

Other Rim/Wheel Marking: 6J x 15H2, ET37

Rim Inspection Comments: None

Tire Inspection Comments: None

Wheel/Rim Construction (i.e., welded, one piece, cast, deep dish, etc.): Two piece welded steel, painted black

DATA INDICATES COMPLIANCE: (X) YES ( ) NO

REMARKS:

RECORDED BY: [Signature]  DATE: 05/24/05

APPROVED BY: [Signature]
DATA SHEET 7
DEFLATED TIRE RETENTION

VEHICLE MAKE/MODEL/BODY STYLE: 2005 VOLKSWAGEN PASSAT PASSENGER CAR
VEHICLE NHTSA NO.: C56800 VIN: WWWWBE63B157____________
LABORATORY: GENERAL TESTING LABORATORIES
TEST DATE: 05/26/05

Tire Pressures: LF 250 kPa (36 psi) LR 300 kPa (44 psi)
(RF 250 kPa (36 psi) RR 300 kPa (44 psi)

Test Weight (should be the same weight and distribution recorded on Data Sheet 3 Section D.5.

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LF</td>
<td>532 kg (1173 lb)</td>
<td>LR</td>
</tr>
<tr>
<td>RF</td>
<td>554 kg (1221 lb)</td>
<td>RR</td>
</tr>
<tr>
<td>Front Axle</td>
<td>1086 kg (2394 lb)</td>
<td>Rear Axle</td>
</tr>
</tbody>
</table>

TOTAL VEHICLE 2034 kg (4484 lb)

Description of Weight Distribution: Salt bags in front passenger seat, rear seat and trunk.

A. Retention Test Left Front:

Odometer (START): 214 km (133 miles) Fuel Level: Full

Tire Pressure: 250 kPa (36 psi)

Ambient Temperature: 25.6 degrees C (78 F)

Wind Speed: 8.0 kmph (5.0 mph)

Size of Deflation Opening: 2.5 cm (1.0 in.) in diameter

Speed: 95.8 kmph (59.5 mph)

Deceleration Rate: 1.82 – 2.43 mpsps avg. (6-8 fpsps)

Distance Traveled After Initial Release of Air: 246 m (808 ft)

Distance of Deviation: < .3 m (<1 ft)

Description of Bead Separation, Outboard: None

Description of Bead Separation, Inboard: None
DATA SHEET 7 continued

DEFLATED TIRE RETENTION

B. Retention Test Right Rear:

Odometer (START): 219 km (136 miles) Fuel Level: Full

Tire Pressure: 300 kPa (44 psi)

Ambient Temperature: 25.6 degrees C (78 F)

Wind Speed: 8.0 kmph (5 mph)

Size of Deflation Opening: 2.5 cm (1.0 in.) in diameter

Speed: 96.8 kmph (60.2 mph)

Deceleration Rate: 2.13 - 2.43 m/s² avg. (7-8 fps²)

Distance Traveled After Initial Release of Air: 242 m (794 ft)

Distance of Deviation: < 0.3 m (<1 ft)

Description of Bead Separation, Outboard: None

Description of Bead Separation, Inboard: None

NOTE: No rotation of tire on rim

C. REMARKS: (Stability, Control, Suspension, etc.)

Good control, normal stopping

PASS/FAIL

Left Front Pass

Right Rear Pass

DATA INDICATES COMPLIANCE: (X) YES ( ) NO

REMARKS:

RECORDED BY: [Signature] DATE: 05/31/05

APPROVED BY: [Signature]
TABLE 1 - INSTRUMENTATION & EQUIPMENT LIST

<table>
<thead>
<tr>
<th>EQUIPMENT</th>
<th>DESCRIPTION</th>
<th>MODEL/ SERIAL NO.</th>
<th>CAL. DATE</th>
<th>NEXT CAL. DATE</th>
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<tbody>
<tr>
<td>PAD SCALES</td>
<td>#1 199744LF</td>
<td>199744LF</td>
<td>07/04</td>
<td>07/05</td>
</tr>
<tr>
<td></td>
<td>#2 199744RF</td>
<td>199744RF</td>
<td>07/04</td>
<td>07/05</td>
</tr>
<tr>
<td></td>
<td>#3 199744LR</td>
<td>199744LR</td>
<td>07/04</td>
<td>07/05</td>
</tr>
<tr>
<td></td>
<td>#4 199744RR</td>
<td>199744RR</td>
<td>07/04</td>
<td>07/05</td>
</tr>
<tr>
<td>PRESSURE TRANSUDCER</td>
<td>BLH</td>
<td>D-HF #66409</td>
<td>BEFORE USE</td>
<td>BEFORE USE</td>
</tr>
<tr>
<td>SURFACE LEVEL</td>
<td>STANLEY</td>
<td>641186</td>
<td>05/05</td>
<td>05/06</td>
</tr>
<tr>
<td>DATA ACQUISITION COMPUTER</td>
<td>GEO1</td>
<td>N/A</td>
<td>BEFORE USE</td>
<td>BEFORE USE</td>
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<tr>
<td>ANEMOMETER</td>
<td>HASTINGS</td>
<td>RM-1</td>
<td>05/05</td>
<td>05/06</td>
</tr>
<tr>
<td>SLIP RING ASSEMBLY</td>
<td>GTL</td>
<td>N/A</td>
<td>BEFORE USE</td>
<td>BEFORE USE</td>
</tr>
<tr>
<td>DECELEROMETER</td>
<td>GTL</td>
<td>N/A</td>
<td>BEFORE USE</td>
<td>BEFORE USE</td>
</tr>
<tr>
<td>INCLINOMETER</td>
<td>STARRETT</td>
<td>002</td>
<td>05/05</td>
<td>05/06</td>
</tr>
<tr>
<td>VBOX</td>
<td>RACELOGIC</td>
<td>VB2 #004337</td>
<td>BEFORE USE</td>
<td>BEFORE USE</td>
</tr>
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</table>
SECTION 6
TEST PLOTS