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

GENERAL MOTORS OF CANADA LTD.
2005 BUICK LACROSSE, 4-DOOR PASSENGER CAR
NHTSA NO. C50103

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
400 SEVENTH STREET, SW
ROOM 6111 (NVS-220)
WASHINGTON, D.C. 20590
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Approved By: [Signature]
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2005 BUICK LACROSSE PASSENGER CAR  
NHTSA No. C50103

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Final Test Report  
May 24-May 31, 2005

NVS-220

15. Supplementary Notes

16. Abstract  
Compliance tests were conducted on the subject 2005 Buick Lacrosse 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

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INTRODUCTION

1.0 PURPOSE OF COMPLIANCE TEST

A 2005 Buick Lacrosse 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 Buick Lacrosse 4-door passenger car. Nomenclature applicable to the test vehicle are:

A. Vehicle Identification Number: 2G4WC532051308692

B. NHTSA No.: C50103

C. Manufacturer: GENERAL MOTORS OF CANADA LTD.

D. Manufacture Date: 04/05

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 Buick Lacrosse 4-door passenger car, NHTSA No. C50103, 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 96.6 kph (60 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
VEHICLE MAKE/MODEL/BODY STYLE: 2005 BUICK LACROSSE PASSENGER CAR  
VEHICLE NHTSA NO.: C50103; VIN: 2G4WC532051308692  
LABORATORY: GENERAL TESTING LABORATORIES  
TEST DATE: 05/24/05

**REQUIREMENT**

**TIRE 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 BUICK LACROSSE APPEARS TO COMPLY WITH THE REQUIREMENTS OF FMVSS 110.

**REMARKS:**

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

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 BUICK LACROSSE

MANUFACTURE DATE: 04/05    NHTSA NO.: C50103    BODY COLOR: WHITE

VIN: 2G4WC532051308692    VEHICLE TYPE: PASSENGER CAR

GVWR 2034 kg (4485 lbs)    GAWR(Fr) 1106 kg (2438 lbs)    GAWR(Rr) 929 kg (2047 lbs)

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

ENGINE DATA: 6 Cylinders 3.8 Liters ___ Cubic Inches

TRANSMISSION DATA: X Automatic ___ Manual 4 No. of Speeds

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

INSTALLED TIRE DATA: Size - P225/60R16    Mfr. - GOODYEAR

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></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Air Conditioning</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tinted Glass</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power Steering</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Power Windows</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power Door Locks</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power Seat(s)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power Brakes</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Antilock Brake System</td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

|                           |                  |                           |                           |                           |                           |
|                           |                  |                           |                           |                           |                           |
|                           |                  |                           |                           |                           |                           |
|                           |                  |                           |                           |                           |                           |

REMARKS:

RECORDED BY: ______________________ DATE: 05/24/05

APPROVED BY: ______________________
DATA SHEET 3
CURB WEIGHT WITH OPTIONS, NORMAL LOAD, VEHICLE MAXIMUM LOAD

VEHICLE MAKE/MODEL/BODY STYLE: 2005 BUICK LACROSSE PASSENGER CAR
VEHICLE NHTSA NO.: C50103 ; VIN: 2G4WC532051308692
LABORATORY: GENERAL TESTING LABORATORIES
TEST DATE: 05/24/05

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

Tire Pressure:
LF 210 KPA (30 psi) LR 210 KPA (30 psi)
RF 210 KPA (30 psi) RR 210 KPA (30 psi)

A. MEASURED CURB WEIGHT WITH INSTALLED OPTIONS AND ACCESSORIES

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LF</td>
<td>502</td>
<td>KG (1107 LB)</td>
</tr>
<tr>
<td>RF</td>
<td>511</td>
<td>KG (1127 LB)</td>
</tr>
<tr>
<td>LR</td>
<td>298</td>
<td>KG (656 LB)</td>
</tr>
<tr>
<td>RR</td>
<td>303</td>
<td>KG (667 LB)</td>
</tr>
<tr>
<td>Front Axle</td>
<td>1013</td>
<td>KG (2234 LB)</td>
</tr>
<tr>
<td>Rear Axle</td>
<td>600</td>
<td>KG (1323 LB)</td>
</tr>
</tbody>
</table>

Total Vehicle 1613 KG (3557 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 I = 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

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LF</td>
<td>554</td>
<td>KG (1222 LB)</td>
</tr>
<tr>
<td>RF</td>
<td>557</td>
<td>KG (1229 LB)</td>
</tr>
<tr>
<td>LR</td>
<td>352</td>
<td>KG (776 LB)</td>
</tr>
<tr>
<td>RR</td>
<td>354</td>
<td>KG (780 LB)</td>
</tr>
<tr>
<td>Frt Axle</td>
<td>1112</td>
<td>KG (2451 LB)</td>
</tr>
<tr>
<td>Rr Axle</td>
<td>706</td>
<td>KG (1556 LB)</td>
</tr>
</tbody>
</table>

Total Vehicle 1818 KG (4007 LB)
DATA SHEET 3 – CONTINUED

(5) Calculated Vehicle Normal Load on the Tire
Front Tires (measured front axle normal load/2) = 556 KG (1226 LB)
Rear Tires (measured rear axle normal load/2) = 353 KG (778 LB)

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

<table>
<thead>
<tr>
<th></th>
<th>Front</th>
<th>Rear</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>P225/60R16</td>
<td>P225/60R16</td>
</tr>
<tr>
<td>Max. Load Rating on Sidewall</td>
<td>730 KG (1609 LBS)</td>
<td>730 KG (1609 LBS)</td>
</tr>
<tr>
<td>High Speed Test Load (88% of sidewall max. load rating)</td>
<td>642 KG (1416 LBS)</td>
<td>642 KG (1416 LBS)</td>
</tr>
<tr>
<td>Optional Tire Size(s)</td>
<td>NONE</td>
<td>NONE</td>
</tr>
<tr>
<td>Max. Load Rating on Sidewall</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>(Obtain from approved reference manual)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>High Speed Test Load (88% of sidewall max. load rating)</td>
<td>N/A</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; [((5) &lt; (6)]</th>
<th>Front Tires</th>
<th>Rear Tires</th>
<th>PASS/FAIL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Optional Tires; [((5) &lt; (6)]</td>
<td>Front Tires</td>
<td>Rear Tires</td>
<td>N/A</td>
</tr>
</tbody>
</table>

C. MEASURED VEHICLE WITH FULL OCCUPANT LOAD

<p>| | | |</p>
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<thead>
<tr>
<th></th>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LF</td>
<td>579 KG (1276 LB)</td>
<td>LR</td>
</tr>
<tr>
<td>RF</td>
<td>566 KG (1248 LB)</td>
<td>RR</td>
</tr>
<tr>
<td>Front Axle</td>
<td>1145 KG (2524 LB)</td>
<td>Rear Axle</td>
</tr>
<tr>
<td>Total Vehicle</td>
<td>1954 KG (4307 LB)</td>
<td></td>
</tr>
</tbody>
</table>
D. VEHICLE MAXIMUM LOAD ON THE TIRE

(1) Vehicle Capacity Weight (from Placard) 416 KG (917 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)) 76 KG (167 LB)

(5) Measured Maximum Load on Axles

<table>
<thead>
<tr>
<th>Axle</th>
<th>Weight (KG)</th>
<th>Weight (LB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LF</td>
<td>576</td>
<td>1270</td>
</tr>
<tr>
<td>RF</td>
<td>568</td>
<td>1252</td>
</tr>
<tr>
<td>LR</td>
<td>447</td>
<td>985</td>
</tr>
<tr>
<td>RR</td>
<td>439</td>
<td>967</td>
</tr>
<tr>
<td>Frt Axle</td>
<td>1144</td>
<td>2522</td>
</tr>
<tr>
<td>Rr Axle</td>
<td>885</td>
<td>1952</td>
</tr>
</tbody>
</table>

Total Vehicle 2029 KG (4474 LB)

(6) Calculated Vehicle Maximum Load on the Tire

Front Tires (measured front axle max. load/2) = 572 KG (1261 LB)

Rear Tires (measured rear axle max. load/2) = 443 KG (976 LB)

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

<table>
<thead>
<tr>
<th>轮胎尺寸</th>
<th>前轮负荷</th>
<th>后轮负荷</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installed Tire Size</td>
<td>P225/60R16</td>
<td>P225/60R16</td>
</tr>
<tr>
<td>Max. Load Rating on Sidewall</td>
<td>730 KG (1609 LBS)</td>
<td>730 KG (1609 LBS)</td>
</tr>
<tr>
<td>Optional Tire Size(s)</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Max Load Rating on Sidewall (obtain from approved reference manual)</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>轮胎类型</th>
<th>前轮</th>
<th>后轮</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installed Tires; [(6) &lt; (7)]</td>
<td>PASS</td>
<td>PASS</td>
</tr>
<tr>
<td>Optional Tires; [(6) &lt; (7)]</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>
DATA SHEET 3 – CONTINUED

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 2029 kg (4474 lbs) with P225/60R16 tire at 210 kPa (30 psi) on tire label.

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

<table>
<thead>
<tr>
<th></th>
<th>Front Axle</th>
<th>Rear Axle</th>
</tr>
</thead>
<tbody>
<tr>
<td>LF</td>
<td>576 KG (1270 LB)</td>
<td>447 KG (985 LB)</td>
</tr>
<tr>
<td>RF</td>
<td>568 KG (1252 LB)</td>
<td>439 KG (967 LB)</td>
</tr>
<tr>
<td>Frt Axle</td>
<td>1144 KG (2522 LB)</td>
<td>885 KG (1952 LB)</td>
</tr>
<tr>
<td>Total Vehicle</td>
<td>2029 KG (4474 LB)</td>
<td></td>
</tr>
</tbody>
</table>

(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>Displayed Tire Size</td>
<td>P225/60R16</td>
<td>P225/60R16</td>
</tr>
<tr>
<td>Recommended Inflation Pressure</td>
<td>210 kPa (30 psi)</td>
<td>210 kPa (30 psi)</td>
</tr>
<tr>
<td>Tire Load Rating</td>
<td>670 KG (1477 LBS)</td>
<td>670 KG (1477 LBS)</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th></th>
<th>Front Tires</th>
<th>Rear Tires</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>[(2) &lt; (3)]</td>
<td>[(2) &lt; (3)]</td>
</tr>
<tr>
<td></td>
<td>PASS/FAIL</td>
<td>PASS</td>
</tr>
</tbody>
</table>

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 BUICK LACROSSE PASSENGER CAR
VEHICLE NHTSA NO.: C50103; VIN: 2G4WC532051308692
LABORATORY: GENERAL TESTING LABORATORIES
TEST DATE: 05/24/05

A. Description of Placard: Self Adhesive decal – Red, Black
   Yellow and White
PASS/FAIL Pass

B. Description of Placard Location: Driver’s “B” pillar
   Permanently Affixed (X) YES ( ) NO
   Pass

C. Enter Information from Placard:
   Vehicle Capacity Weight - 416 KG (917 LBS)
   Pass
   Designated Seating Capacity (DSC) - 5
   Expressed In—
   (1) Total No. of Occupants (X) Yes ( ) No
   (2) Terms of Occupants for Each Seat Location (X) YES ( ) NO
   Pass
   Manufacturer’s Recommended Cold Tire Inflation Pressure for Maximum Load Vehicle Weight:
   FRONT - 210 kPa (30 psi)      REAR - 210 kPa (30 psi)
   All Other Recommended Inflation Pressures:
   None
   All Other Recommended Loading Conditions:
   None
   Manufacturer’s Recommended Size Designation:
   P225/60R16
   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 BUICK LACROSSE PASSENGER CAR
VEHICLE NHTSA NO.: C50103 ; VIN: 2G4WC532051308692
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:

Front Axle (R.F. Tire) Rear Axle (L.R. Tire) Spare
Tire Size Designation P225/60R16 P225/60R16 T125/70D16
Tire Load Index/Speed Symbol 97S 97S 96M
Maximum Inflation Pressure 300 kPa (44 psi) 300 kPa (44 psi) 420 kPa (60 psi)
Maximum Load Rating 730 KG (1609 LBS) 730 KG (1609 LBS) 710 KG (1565 LB)
Mfr. Name or Brand & Code GOODYEAR GOODYEAR GOODYEAR
Tube or Tubeless Tubeless Tubeless Tubeless
Treadwear/Traction/Temp. Grades 460-A-B 460-A-B N/A
Sidewall (Plies & Composition) 1 polyester 1 polyester 2 nylon
Tread (Plies & Composition) 1 polyester 1 polyester 2 nylon
2 steel 2 steel

Serial Number:
- Left Front - DOT M6XO B3DR 1205
- Right Front - DOT M6XO B3DR 1205
- Left Rear - DOT M6XO B3DR 1205
- Right Rear - DOT M6XO B3DR 1205
- Spare - DOT PCW6 H9WP 0905

Tires have “DOT” markings: (X) YES ( ) NO

REMARKS:

RECORDED BY: DATE: 05/25/05
APPROVED BY: 

DATA SHEET 6
RIM DIMENSIONS

VEHICLE MAKE/MODEL/BODY STYLE: 2005 BUICK LACROSSE PASSENGER CAR
VEHICLE NHTSA NO.: C50103 ; VIN: 2G4WC532051308692
LABORATORY: GENERAL TESTING LABORATORIES
TEST DATE: 05/25/05

A. Rim Size & Flange

<table>
<thead>
<tr>
<th>Tire Size</th>
<th>Specfd. 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: P225/60R16</td>
<td>6.0 to 8.0J</td>
<td>6.5&quot;</td>
<td>16&quot;</td>
<td>Pass</td>
</tr>
<tr>
<td>Left Rear: P225/60R16</td>
<td>6.0 to 8.0J</td>
<td>6.5&quot;</td>
<td>16&quot;</td>
<td>Pass</td>
</tr>
</tbody>
</table>

REFERENCE USED: 2005 Tire and Rim Association Yearbook

B. Trade Stamps, Marks, Symbols: T-DOT, RNE, 16 x 6.5J, 15898

Rim Manufacturer's Name or Label: FUMAGALLI

Other Rim/Wheel Marking: 05.02.11, MADE IN BRAZIL, F1

Rim Inspection Comments: None

Tire Inspection Comments: None

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

DATA INDICATES COMPLIANCE: (X) YES ( ) NO

REMARKS:

RECORDED BY: [Signature] DATE: 05/25/05

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

VEHICLE MAKE/MODEL/BODY STYLE: 2005 BUICK LACROSSE PASSENGER CAR
VEHICLE NHTSA NO.: C50103; VIN: 2G4WC532051308692
LABORATORY: GENERAL TESTING LABORATORIES
TEST DATE: 05/26/05

Tire Pressures:
LF 210 kPa (30 psi)  LR 210 kPa (30 psi)
RF 210 kPa (30 psi)  RR 210 kPa (30 psi)
(cold)

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

LF 579 kg (1276 lb)  LR 446 kg (983 lb)
RF 567 kg (1250 lb)  RR 437 kg (963 lb)
Front Axle 1146 kg (2526 lb)  Rear Axle 883 kg (1946 lb)

TOTAL VEHICLE 2028 kg (4472 lb)

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

A. Retention Test Left Front:

Odometer (START): 159 km (99 miles)  Fuel Level: Full

Tire Pressure: 210 kPa (30 psi)

Ambient Temperature: 26.6 degrees C (80 F)

Wind Speed: 9.6 kmph (6.0 mph)

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

Speed: 96.9 kmph (60.2 mph)

Deceleration Rate: 1.82 – 2.13 mpsps avg. (6-7 fpsps)

Distance Traveled After Initial Release of Air: 253 m (831 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): _164_ km (102 miles) Fuel Level: _Full_

Tire Pressure: _210_ kPa (30 psi)

Ambient Temperature: _22.7_ degrees C (73 F)

Wind Speed: _4.8_ kmph (3 mph)

Size of Deflation Opening: _2.5_ cm (1.0 in.) in diameter

Speed: _96.3_ kmph (59.9 mph)

Deceleration Rate: _2.13 - 2.43_ m/sps avg. (7-8 fpsps)

Distance Traveled After Initial Release of Air: _206_ m (677 ft)

Distance of Deviation: _<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]_
### SECTION 4
INSTRUMENTATION AND 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>
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<td></td>
<td>#2 199744RF</td>
<td>199744RF</td>
<td>07/04</td>
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<tr>
<td></td>
<td>#3 199744LR</td>
<td>199744LR</td>
<td>07/04</td>
<td>07/05</td>
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<td></td>
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<td>BLH</td>
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<td>641186</td>
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<td>05/06</td>
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<td>DATA ACQUISITION</td>
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<td>N/A</td>
<td>BEFORE USE</td>
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<td>COMPUTER</td>
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<tr>
<td>ANEMOMETER</td>
<td>HASTINGS</td>
<td>RM-1</td>
<td>05/05</td>
<td>05/06</td>
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<td>SLIP RING ASSEMBLY</td>
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<td>DECELEROMETER</td>
<td>GTL</td>
<td>N/A</td>
<td>BEFORE USE</td>
<td>BEFORE USE</td>
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<td>INCLINOMETER</td>
<td>STARRETT</td>
<td>002</td>
<td>05/05</td>
<td>05/06</td>
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<tr>
<td>VBOX</td>
<td>RACELOGIC</td>
<td>VB2 #004337</td>
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<td>BEFORE USE</td>
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</table>
SECTION 5
PHOTOGRAPHS
VEHICLE CERTIFICATION LABEL

FIGURE 5.5

2G4WC532051308692

TYPE: PASSE CAR

EFFECT ON THE DATE OF MANUFACTURE SHOWN ABOVE.

VEHICLE SAFETY, BUMPER AND THEFT PREVENTION STANDARDS IN

THIS VEHICLE CONFORMS TO ALL APPLICABLE U.S. FEDERAL MOTOR

2047 LB 2438 LB 4485 LB
629 KG 1105 KG 2034 KG

04/05 DATE GVR450 GAWA FR

MFD BY GENERAL MOTORS OF CANADA LTD.
<table>
<thead>
<tr>
<th>INFORMATION</th>
<th>SPARE</th>
<th>T125/70D16</th>
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<tbody>
<tr>
<td>210 kPa, 30 PSI</td>
<td>REAR</td>
<td>P225/60R16</td>
</tr>
<tr>
<td>210 kPa, 30 PSI</td>
<td>FRONT</td>
<td>P225/60R16</td>
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<tr>
<td>INFLATION PRESSURE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>COLD TIME</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ORIGINAL</td>
<td></td>
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</tr>
</tbody>
</table>

The combined weight of occupants and cargo should not exceed 416 lb (190 kg) or 917 lbs (415 kg).

SEATING CAPACITY: TOTAl 5, FRONT 1, CENTER 0, REAR 3

FIGURE 5.6 Tire and Loading Information

VEHICLE INFORMATION LABEL
Figure 5.12: Tire Showing Sidewall Construction
FIGURE 5.21
OUTSIDE VIEW OF RIGHT REAR TIRE AFTER BLOW-OUT
SECTION 6
TEST PLOTS