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

FORD MOTOR CO. IN U.S.A.
2003 FORD FOCUS PASSENGER CAR
NHTSA NO. C30212

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

SEPTEMBER 22, 2003
FINAL REPORT

PREPARED FOR
U.S. DEPARTMENT OF TRANSPORTATION
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SAFETY ENFORCEMENT
OFFICE OF VEHICLE SAFETY COMPLIANCE
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WASHINGTON, D.C. 20590
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This test was conducted on the subject, 2003 Ford Focus passenger car in accordance with the specifications of the Office of Vehicle Safety Compliance Test Procedure No. TP-110-02 (partial), to gather data relating to the normal load requirements specified in FMVSS 110. NHTSA's Office of Safety Performance Standards requested this data to support the agency's TREAD tire rulemaking efforts.

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SECTION 1

INTRODUCTION

1.0 PURPOSE OF INDICANT TEST

A 2003 Ford Focus passenger car was subjected to a FMVSS No. 110 (Indicant) test intended to gather data relating to the normal load requirements specified in FMVSS 110. NHTSA's Office of Safety Performance Standards requested this data to support the agency's TREAD tire rulemaking efforts.

1.1 TEST VEHICLE

The test vehicle was a 2003 Ford Focus. Nomenclature applicable to the test vehicle are:

A. Vehicle Identification Number: 1FAFP34P63W219003

B. NHTSA No.: C30212

C. Manufacturer: FORD MOTOR CO. IN U.S.A.

D. Manufacture Date: 02/03

1.2 TEST DATE

The test vehicle was subjected to testing on June 03, 2003.
SECTION 2

TEST PROCEDURE AND SUMMARY OF RESULTS

2.0 TEST PROCEDURE

The vehicle was inspected, photographed and filled with fuel. It was then weighed to establish total curb weight and the weights of all wheels were measured and recorded. The vehicle was then ballasted to its normal load condition (refer to appendix) and the weights of all wheels were measured and recorded. Tire information labeling data and tire sidewall data were recorded.

This indicant test did not include any other requirements in FMVSS 110.

2.1 SUMMARY OF RESULTS

Test results are provided in Section 3.
SECTION 3
TEST DATA
VEHICLE MAKE/MODEL/BODY STYLE: 2003 FORD FOCUS PASSENGER CAR
VEHICLE NHTSA NO.: C30212       VIN: 1FAFP34F63W219003
LABORATORY: GENERAL TESTING LABORATORIES
TEST DATE: 06/03/03

REQUIREMENT

The vehicle is equipped with tires that meet the requirements of FMVSS 109 or FMVSS 119. ✔️

The vehicle normal load on the tire is not greater than the high speed performance test load specified in FMVSS 109 paragraph S5.5 or FMVSS 119 paragraph S7.4. ✔️

For passenger cars, the tire information placard is permanently affixed to the glove compartment door or equally accessible location; and displays the required information (FMVSS 110, S4.3). ✔️

For vehicles other than passenger cars, a combined certification/tire information label or separate tire information label is permanently affixed to either the hinge pillar, door-latch post or to the inward-facing surface of the door next to the driver's seating position (FMVSS 120, S5.3). N/A

REMARKS:

RECORDED BY: [Signature]           DATE: 06/03/03
APPROVED BY: [Signature]
DATA SHEET 2
TEST VEHICLE INFORMATION/RECEIVING INSPECTION

LABORATORY: GENERAL TESTING LABORATORIES
DATE: 06/03/03

VEHICLE MODEL YEAR/MAKE/MODEL/BODY STYLE: 2003 FORD FOCUS SE

MANUFACTURE DATE: 02/03  NHTSA NO.: C30212  BODY COLOR: SANGRIA RED

VIN: 1FAFP34P63W219003  VEHICLE TYPE: PASSENGER CAR

GVWR 1641 kg (3620 lbs)  GAWR(Fr) 891 kg (1965 lbs)  GAWR(Rr) 791 kg (1745 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 5 No. of Speeds

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

INSTALLED TIRE DATA: Size - P195/60R15  Mfr. - GOODYEAR EAGLE

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

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

ARE ALL OPTIONS LISTED ON "WINDOW STICKER" PRESENT ON THE TEST VEHICLE: (YES/NO) Yes

REMARKS:

RECORDED BY: [signature]  DATE: 06/03/03

APPROVED BY: [signature]
DATA SHEET 3
CURB WEIGHT WITH OPTIONS AND NORMAL LOAD

VEHICLE MAKE/MODEL/BODY STYLE: 2003 FORD FOCUS PASSENGER CAR
VEHICLE NHTSA NO.: C30212 ....; VIN: 1FAFP34P63W219003
LABORATORY: GENERAL TESTING LABORATORIES
TEST DATE: 06/03/03

Full Fluid Levels:
Fuel ________ Full ___, Coolant ________ Full ___, Other Fluids ________ Full ___.

Tire Pressure:
LF 220 KPA (32 psi) LR 220 KPA (32 psi)
RF 220 KPA (32 psi) RR 220 KPA (32 psi)

A. MEASURED CURB WEIGHT WITH INSTALLED OPTIONS AND ACCESSORIES

<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>
</tr>
</thead>
<tbody>
<tr>
<td>KG (LB)</td>
<td>373 (822)</td>
<td>224 (493)</td>
<td>373 (822)</td>
<td>251 (553)</td>
<td>746 (1644)</td>
<td>474 (1046)</td>
</tr>
</tbody>
</table>

Total Vehicle ________ 1220 KG (2690 LB) __________

B. MEASURED VEHICLE WEIGHT IN NORMAL LOAD CONDITION

(1) Seating Capacity (from Tire Information Placard) = ________ 5 ________
Seating Capacity (# of belted seating positions) = ________ 5 ________

(2) Normal Load # of Occupants from Appendix
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 Each Wheel and Axles (Sum)

<table>
<thead>
<tr>
<th></th>
<th>LF</th>
<th>LR</th>
<th>RF</th>
<th>RR</th>
<th>Frt Axle</th>
<th>Rr Axle</th>
</tr>
</thead>
<tbody>
<tr>
<td>KG (LB)</td>
<td>420 (925)</td>
<td>277 (610)</td>
<td>422 (930)</td>
<td>306 (675)</td>
<td>841 (1855)</td>
<td>583 (1285)</td>
</tr>
</tbody>
</table>

Total Vehicle ________ 1424 KG (3140 LB) ________
(5) Calculated Vehicle Normal Load on the Tire
Front Tires (measured front axle normal load/2) = 420 KG (927 LB)
Rear Tires (measured front axle normal load/2) = 291 KG (642 LB)

(6) High Speed Test Load from (X) FMVSS 109 (S5.5), or ( ) FMVSS 119 (S7.4)

<table>
<thead>
<tr>
<th></th>
<th>Front</th>
<th>Rear</th>
</tr>
</thead>
<tbody>
<tr>
<td>(a)</td>
<td>Installed Tire Size</td>
<td>P195/60R15</td>
</tr>
<tr>
<td>Max. Load Rating on Sidewall</td>
<td>540 KG (1190 LBS)</td>
<td>540 KG (1190 LBS)</td>
</tr>
<tr>
<td>Reduced Sidewall Load Rating (if applicable)*</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>High Speed Test Load (88% of sidewall max. load rating)</td>
<td>475 KG (1047 LBS)</td>
<td>475 KG (1047 LBS)</td>
</tr>
<tr>
<td>(b)</td>
<td>Optional Tire Size(s)</td>
<td>NONE</td>
</tr>
</tbody>
</table>

* If a passenger car tire is installed on a multipurpose passenger vehicle (MPV), truck or bus, the tire's load rating shall be reduced by dividing by 1.10.

REMARKS: The Vehicle Normal Load on the Tire is not greater than the High Speed Test Load.

RECORDED BY: [Signature]  DATE: 06/03/03
APPROVED BY: [Signature]
DATA SHEET 4
TIRE INFORMATION LABEL OR PLACARD

VEHICLE MAKE/MODEL/BODY STYLE: 2003 FORD FOCUS PASSENGER CAR
VEHICLE NHTSA NO.: C30212; VIN: 1FAFP34P53W219003
LABORATORY: GENERAL TESTING LABORATORIES
TEST DATE: 06/03/03

A. Vehicle Type from Certification Label: Passenger Car

B. Identify Vehicle Labeling:

Vehicle has a combined Certification Tire Information Label (X) Yes ( ) No
Is Label Permanently Affixed: (X) Yes ( ) No
Label Location: Driver's Door
Description of Label: Vinyl

Vehicle has a separate Tire Information Label or Placard ( ) Yes (X) No
Is Label Permanently Affixed: ( ) Yes ( ) No
Label Location:
Description of Label:

C. Enter Information from Combined or Separate Tire Information Label/Placard

Vehicle Capacity Weight - "MAXIMUM LOAD" 375 KG (827 LBS)

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

Manufacturer's Recommended Tire Size and Cold Tire Inflation Pressure For Maximum Load Vehicle Weight:

P195/60R15 FRONT - 220 kPa (32 psi)
REAR - 220 kPa (32 psi)

Manufacturer's Recommended Tire Size and Cold Tire Inflation Pressure For Other Load Conditions: NONE

REMARKS:

RECORDED BY: [Signature] DATE: 06/03/03
APPROVED BY: [Signature]
DATA SHEET 5
VEHICLE TIRE DATA

VEHICLE MAKE/MODEL/BODY STYLE: 2003 FORD FOCUS PASSENGER CAR
VEHICLE NHTSA NO.: C30212 ; VIN: 1FAFP34P63W219003
LABORATORY: GENERAL TESTING LABORATORIES
TEST DATE: 06/03/03

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

INFORMATION FROM TIRE SIDEWALL:

Left Front Tire

Tire Size Designation

P195/60R15

Tire Load Index/Speed Symbol

67T

Maximum Inflation Pressure

300 kPa (44 psi)

Maximum Load Rating

540 KG (1190 LBS.)

Mfr. Name or Brand & Code

GOODYEAR EAGLE

Tube or Tubeless

TUBELESS

Treadwear/Traction/Temp. Grades

260/A/B

Sidewall (Plies & Composition)

1 PLY POLYESTER

Tread (Plies & Composition)

1 PLY POLYESTER

2 PLY STEEL

Serial Number: Right Front - DOT W6V9 LNER_0303

Tire has "DOT" markings: (X) YES ( ) NO ( ) UNDETERMINED

REMARKS:

RECORDED BY: [Signature] DATE: 06/03/03

APPROVED BY: [Signature]
# Table 1 - 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>
</tr>
</thead>
<tbody>
<tr>
<td>PAD SCALES</td>
<td>#1 199744LF</td>
<td>199744LF</td>
<td>06/02</td>
<td>06/20/03</td>
</tr>
<tr>
<td></td>
<td>#2 199744RF</td>
<td>199744RF</td>
<td>06/02</td>
<td>06/20/03</td>
</tr>
<tr>
<td></td>
<td>#3 199744LR</td>
<td>199744LR</td>
<td>06/02</td>
<td>06/20/03</td>
</tr>
<tr>
<td></td>
<td>#4 199744RR</td>
<td>199744RR</td>
<td>06/02</td>
<td>06/20/03</td>
</tr>
<tr>
<td>PRESSURE GAGE</td>
<td>WESKLER</td>
<td>0-100</td>
<td>05/03</td>
<td>05/04</td>
</tr>
<tr>
<td>SURFACE LEVEL</td>
<td>GTL</td>
<td>N/A</td>
<td>BEFORE USE</td>
<td>BEFORE USE</td>
</tr>
</tbody>
</table>
SECTION 5
PHOTOGRAPHS
### APPENDIX

Table 1 – Occupant Loading and Distribution for Vehicle Normal Load for Various Designated Seating Capacities

<table>
<thead>
<tr>
<th>Designated Seating Capacities, numbers of Occupants</th>
<th>Vehicle normal load, number of occupants</th>
<th>Occupant distribution in a normally loaded vehicle</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 through 4</td>
<td>2</td>
<td>2 in front</td>
</tr>
<tr>
<td>5 through 10</td>
<td>3</td>
<td>2 in front, 1 in second seat</td>
</tr>
<tr>
<td>11 through 15</td>
<td>5</td>
<td>2 in front, 1 in second seat, 1 in third seat, 1 in fourth seat</td>
</tr>
<tr>
<td>16 through 22</td>
<td>7</td>
<td>2 in front, 2 in second seat, 2 in third seat, 1 in fourth seat</td>
</tr>
</tbody>
</table>

**NOTE:** For the indicant test each seat was adjusted to its full down and mid forward to aft position with the seat back adjusted to a 25° reclined angle. Each designated seat position was ballasted with 54 KG (120 LBS) in the seat and 14 KG (30 LBS) on the floor directly in front of the respective seat position.