

**122-TRC-10-004**

**SAFETY COMPLIANCE TESTING FOR FMVSS 122  
Motorcycle Brake Systems**

China Qingqi Group Inc.  
2008 Zap Xebra, Motorcycle  
NHTSA No. C81001

TRANSPORTATION RESEARCH CENTER INC.  
10820 State Route 347  
East Liberty, Ohio 43319



Final Report Completed: November 8, 2010

**FINAL REPORT**

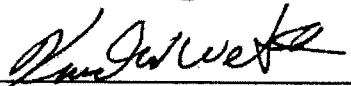
Prepared Under Contract No.: DTNH22-06-C-00033

U.S. DEPARTMENT OF TRANSPORTATION  
National Highway Traffic Safety Administration  
Enforcement  
Office of Vehicle Safety Compliance  
1200 New Jersey Avenue, S.E.  
West Building, 4<sup>th</sup> Floor  
OVSC (NVS-221)  
Washington, DC 20590

Prepared for the Department of Transportation, National Highway Traffic Safety Administration, under Contract No. DTNH22-06-C-00033.

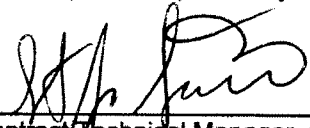
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Prepared By 

Approved By 

Approval Date: 11/8/10

Final Report Acceptance By OVSC:

  
Contract Technical Manager, Office of  
Vehicle Safety Compliance

11/15/10  
Acceptance Date

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                                       |  |                                                                                                                                                                                                                                                                              |  |
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| 1. REPORT NUMBER:<br>122-TRC-10-004                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  | 2. GOVERNMENT ACCESSION NO.:                          |  | 3. RECIPIENTS CATALOG NO.:                                                                                                                                                                                                                                                   |  |
| 4. TITLE AND SUBTITLE:<br><br>Final report of FMVSS 122 Compliance Testing of a<br>2008 Zap Xebra Three Wheel, Motorcycle, NHTSA No. C81001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                                                       |  | 5. REPORT DATE:<br><br>November 8, 2010                                                                                                                                                                                                                                      |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                                       |  | 6. PERFORMING ORGANIZATION CODE:<br><br>TRC 20060110 / 8222                                                                                                                                                                                                                  |  |
| 7. AUTHOR(S):<br>Project Manager: ALAN IDA<br><br>Project Engineer: RANDALL A. LANDES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                                                       |  | 8. PERFORMING ORGANIZATION REPORT NO.:<br><br>TRC-DOT-122-012                                                                                                                                                                                                                |  |
| 9. PERFORMING ORGANIZATION NAME AND ADDRESS:<br><br>Transportation Research Center Inc.<br>10820 State Route 347<br>East Liberty, Ohio 43319                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                                                       |  | 10. WORK UNIT NUMBER:                                                                                                                                                                                                                                                        |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                                       |  | 11. CONTRACT OR GRANT NO.:<br><br>DTNH22-06-C-00033                                                                                                                                                                                                                          |  |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                                       |  | 14. SPONSORING AGENCY CODE:<br><br>NVS-221                                                                                                                                                                                                                                   |  |
| 15. SUPPLEMENTARY NOTES:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                                                       |  |                                                                                                                                                                                                                                                                              |  |
| 16. ABSTRACT:<br><br>Compliance tests were conducted on the subject 2008 Zap Xebra, Three Wheel, Motorcycle, in accordance with the specifications of the Office of Vehicle Safety Compliance Test Procedure No. TP-122-02 for the determination of FMVSS 122 compliance.<br><br>Test failures identified were as follows:<br>S5.1.2.1 <i>Master Cylinder Reservoir</i> – The vehicle did not have a separate reservoir for each brake circuit with each reservoir filler opening having its own cover, seal, and cover retention device (non-compliance noted after test completion thus no Laboratory Notice of Test Failure provided to NHTSA).<br>S5.1.2.2 <i>Reservoir Labeling</i> – The vehicle label did not include the required wording.<br>S5.2.1 <i>Service Brake System – first (preburnish) effectiveness</i> – The vehicle did not stop within the allowable distance at 30 mph.<br>S5.3 <i>Service Brake System – second effectiveness</i> – The vehicle did not stop within the allowable distance at 30 mph. |  |                                                       |  |                                                                                                                                                                                                                                                                              |  |
| 17. KEY WORDS:<br>Compliance Testing<br>Safety Engineering<br>FMVSS 122                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |                                                       |  | 18. DISTRIBUTION STATEMENT:<br><br>Copies of this report are available from:<br>NHTSA Technical Information Services<br>NPO-411<br>1200 New Jersey Ave, S.E.<br>Washington, DC 20590<br>Email: <a href="mailto:lis@nhtsa.dot.gov">lis@nhtsa.dot.gov</a><br>FAX: 202-493-2833 |  |
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## 1.0 INTRODUCTION

Tests were conducted on a 2008 Zap Xebra,,Three Wheel Motorcycle, manufactured by China Qingqi Group Inc., to determine compliance with FMVSS 122 "Motorcycle Brake Systems." All tests were conducted in accordance with the U.S. D.O.T., NHTSA Laboratory Procedure TP 122-02 and/or the corresponding TRC Inc. Test Procedure that was submitted to NHTSA for their approval. The Test Procedure was clearly described in the submitted document and has not been repeated in this report.

All stops were performed manually.

All tests were conducted by TRC Inc. personnel using the following TRC facilities:

Skid Pad  
Instrumentation Check Test  
First Effectiveness Test  
Brake Burnish  
Second Effectiveness Test

Average PFC during the test period was 1.01 (Skid Pad) utilizing the ASTM E1337 w/E1336 tire method.

This vehicle did not meet the requirements of FMVSS 122. Due to multiple failures, NHTSA COTR instructed TRC to discontinue testing after the 2<sup>nd</sup> Effectiveness Test.

# DATA SHEET 1 (1 of 2)

## VEHICLE INFORMATION

|                           |                |                          |                                |                  |        |
|---------------------------|----------------|--------------------------|--------------------------------|------------------|--------|
| VEHICLE:                  | 2008 Zap Xebra | DATE:                    | 10/03/08                       | NHTSA<br>NUMBER: | C81001 |
| TIRE PRESSURE<br>(FRONT): | 36 psi         | TIRE PRESSURE<br>(REAR): | 36 psi                         |                  |        |
| ODOMETER<br>START:        | 85 km.         | ODOMETER FINISH:         | 356 km. (at test halted point) |                  |        |

Date of Manufacture: 02/2008

## General Description:

|                     |                                        |
|---------------------|----------------------------------------|
| Manufacturer        | China Qinqi Group Inc.                 |
| Make & Model        | Zap Xebra                              |
| VIN                 | LAEMA24668G200113                      |
| Engine Type         | Electric                               |
| Engine Displacement | Not Applicable                         |
| Fuel Delivery       | Rechargeable Battery Pack - 72V System |
| Transmission        | None – direct drive                    |
| Final Drive         | NA                                     |
| Wheelbase           | 84.100 in.                             |

## Tires:

|                       | Front                 | Rear (x2)             |
|-----------------------|-----------------------|-----------------------|
| Manufacturer          | Runway                | Runway                |
| Type                  | Enduro LT             | Enduro LT             |
| Size                  | 145R12C               | 145R12C               |
| DOT Number            | 5W88 3006             | 5W88 2806 & 2906      |
| Pressure (cold)       | 36 psi                | 36 psi                |
| Rim Label Information | GJ 2007 12, 4.00 X 12 | GJ 2007 12, 4.00 X 12 |

## Weights:

|                                                   | Front      |            | Rear       |            | Total      |
|---------------------------------------------------|------------|------------|------------|------------|------------|
|                                                   | Mass (lb.) | % of Total | Mass (lb.) | % of Total | Mass (lb.) |
| Test Rider                                        |            |            |            |            | 160.0      |
| Curb Weight (UVW)                                 | 633.5      | 34.0       | 1219.0     | 66.0       | 1852.5     |
| Test Weight<br>(UVW + rider +<br>instrumentation) | 733.5      | 35.7       | 1318.5     | 64.3       | 2052.0     |
| GVWR (label)                                      |            |            |            |            | 2459.0     |
| GAWR (label)                                      | 871.0      | 35.0       | 1630.0     | 65.0       | 2501.0     |

**FMVSS 122 - DATA SHEET 1 (2 of 2)**

**Brakes:**

|                                                                                 | <u>Front</u>            | <u>Rear (x2)</u>        |
|---------------------------------------------------------------------------------|-------------------------|-------------------------|
| <b>Actuation Method:</b><br>mechanical, hydraulic, electric                     | Hydraulic               | Hydraulic               |
| <b>System Type:</b><br>Individual control, Combined Brake System, Split-Service | Split-Service           | Split- Service          |
| <b>Control</b>                                                                  | Foot Pedal              | Foot Pedal              |
| <b>Caliper Type</b>                                                             | Floating                | Floating                |
| <b>Number of Calipers</b>                                                       | 1                       | 1                       |
| <b>No. of Caliper Pistons</b>                                                   | 1                       | 1                       |
| <b>Caliper Piston Diameters</b>                                                 | 2.004 in.               | 2.001 in.               |
| <b>Rotor –Type/Number</b>                                                       | Solid / 1               | Solid / 1               |
| <b>Rotor Diameter</b>                                                           | 8.42 in.                | 8.34 in.                |
| <b>Rotor Thickness/Min. Allowable Thickness</b>                                 | 0.393 in. / NA          | 0.383 in. / NA          |
| <b>Swept Area</b>                                                               | 58.522 in. <sup>2</sup> | 55.685 in. <sup>2</sup> |
| <b>Brake Pad Identification Numbers</b>                                         | SA1ZH1SHUN              | SA1ZH1SHUN              |

**DATA SHEET 2 (1 of 2)**  
**MOTYORCYCLE BRAKE TEST SUMMARY**

VEH.: 2008 Zap Xebra

VEH. NHTSA NO.: C81001; LABORATORY: TRC Inc.

| TEST SUMMARY                                                                                    | SPEED<br>(mi/h) | STOP.<br>DIST. (ft)<br>Actual | STOP.<br>DIST. (ft)<br>Corrected | MAX. BRAKE<br>PEDAL<br>FORCE<br>(lb.) | REAR<br>MAX. BRAKE<br>LEVER<br>FORCE<br>(lb.) | NUMBER<br>OF<br>TESTS | PASS/<br>FAIL |
|-------------------------------------------------------------------------------------------------|-----------------|-------------------------------|----------------------------------|---------------------------------------|-----------------------------------------------|-----------------------|---------------|
| Instrumentation Check                                                                           | 30.7            | 141.7                         | 135.6                            | 4.5                                   | NA                                            | 6                     | N/A           |
| Speed Determination                                                                             | 37.6<br>(avg.)  |                               |                                  |                                       |                                               |                       | N/A           |
| 1 <sup>st</sup> Effectiveness Test @ 30 mi/h<br>(Service Brake System)                          | 29.9            | 55.84                         | 55.88                            | 75.3                                  | NA                                            | 20                    | F             |
| 1 <sup>st</sup> Effectiveness Test @ 60 mi/h<br>(Service Brake System)                          | NA              | NA                            | NA                               | NA                                    | NA                                            | NA                    | NA            |
| 1 <sup>st</sup> Effectiveness Test @ 30 mi/h<br>(Partial) Hand Lever Only – Front<br>Subsystem  | NA              | NA                            | NA                               | NA                                    | NA                                            | NA                    | NA            |
| 1 <sup>st</sup> Effectiveness Test @ 30.0 mi/h<br>(Partial) Foot Pedal Only – Rear<br>Subsystem | NA              | NA                            | NA                               | NA                                    | NA                                            | NA                    | NA            |
| 1 <sup>st</sup> Effectiveness Test @ 60 mi/h<br>(Partial) Hand Lever Only – Front<br>Subsystem  | NA              | NA                            | NA                               | NA                                    | NA                                            | NA                    | NA            |
| 1 <sup>st</sup> Effectiveness Test @ 60 mi/h<br>(Partial) Foot Pedal Only – Rear<br>Subsystem   | NA              | NA                            | NA                               | NA                                    | NA                                            | NA                    | NA            |
| Burnish Procedure                                                                               | 30.0            |                               |                                  |                                       |                                               | 200                   | N/A           |
| 2 <sup>nd</sup> Effectiveness Test@ 30 mi/h<br>(Service brake System)                           | 29.9            | 51.34                         | 51.55                            | 73.5                                  | NA                                            | 14                    | F             |
| 2 <sup>nd</sup> Effectiveness Test@ 60 mi/h<br>(Service brake System)                           | NA              | NA                            | NA                               | NA                                    | NA                                            | NA                    | NA            |
| 2 <sup>nd</sup> Effectiveness Test@ 80 mi/h<br>(Service brake System)                           | NA              | NA                            | NA                               | NA                                    | NA                                            | NA                    | NA            |
| 2 <sup>nd</sup> Effectiveness Test@ 115 mi/h<br>(Service brake System)                          | NA              | NA                            | NA                               | NA                                    | NA                                            | NA                    | NA            |
| Fade and Recovery (Baseline)                                                                    | NA              | NA                            | NA                               | NA                                    | NA                                            | NA                    | NA            |
| Fade and Recovery (Fade Test)                                                                   | NA              | NA                            | NA                               | NA                                    | NA                                            | NA                    | NA            |
| Fade and Recovery (Recovery- 5 <sup>th</sup><br>stop)                                           | NA              | NA                            | NA                               | NA                                    | NA                                            | NA                    | NA            |
| Reburnish Procedure                                                                             | NA              |                               |                                  |                                       |                                               | NA                    | N/A           |
| Final Effect. Test @ 30 mi/h<br>(Service Brake System)                                          | NA              | NA                            | NA                               | NA                                    | NA                                            | NA                    | NA            |

Note: Due to multiple failures, NHTSA COTR instructed TRC to discontinue testing after the 2<sup>nd</sup> Effectiveness Test.

**FMVSS 122 - DATA SHEET 3  
INSTRUMENTATION CHECK (S7.2)**

|                        |                |                       |          |                      |        |
|------------------------|----------------|-----------------------|----------|----------------------|--------|
| VEHICLE:               | 2008 Zap Xebra | DATE:                 | 11/05/08 | NHTSA NUMBER:        | C81001 |
| TIRE PRESSURE (FRONT): | 36 psi         | TIRE PRESSURE (REAR): | 36 psi   | AMBIENT TEMP. °F:    | 70     |
| ODOMETER START:        | 92 km          | ODOMETER FINISH:      | 95 km    | WIND VELOCITY (MPH): | 3      |

REQUIREMENTS: Check instrumentation by making not more than 10 stops from 30 mi/h at a deceleration of not more than 10 ft./s/s, record results, repeat if necessary.

| Stop No. | Test Speed (mi/h) | Initial Brake Temp. (°F) |      | Actual Stopping Distance (ft.) | Corrected Stopping Distance (ft.) | Brake Pedal Force (lbs.) |             | Rear Brake Lever Force (lbs.) |             | Vehicle Decel. (ft/s/s) |             | Wheel Lockup | Stay In Lane |
|----------|-------------------|--------------------------|------|--------------------------------|-----------------------------------|--------------------------|-------------|-------------------------------|-------------|-------------------------|-------------|--------------|--------------|
|          |                   | Front                    | Rear |                                |                                   | M<br>a<br>x              | A<br>v<br>g | M<br>a<br>x                   | A<br>v<br>g | M<br>a<br>x             | A<br>v<br>g |              |              |
| 1        | 30.97             | 102                      | 119  | 162.65                         | 152.62                            | 32.6                     | 28.6        | NA                            | NA          | 32.5                    | 7.0         | No           | Yes          |
| 2        | 30.93             | 135                      | 145  | 158.47                         | 149.08                            | 30.5                     | 24.5        | NA                            | NA          | 28.0                    | 7.0         | No           | Yes          |
| 3        | 30.63             | 119                      | 150  | 142.19                         | 136.40                            | 33.1                     | 28.4        | NA                            | NA          | 25.0                    | 7.5         | No           | Yes          |
| 4        | 30.37             | 135                      | 165  | 147.40                         | 143.83                            | 30.1                     | 26.0        | NA                            | NA          | 21.1                    | 7.3         | No           | Yes          |
| 5        | 30.66             | 144                      | 170  | 141.68                         | 135.65                            | 30.4                     | 27.2        | NA                            | NA          | 22.7                    | 7.5         | No           | Yes          |
| 6        | 30.47             | 145                      | 175  | 147.11                         | 142.61                            | 29.2                     | 25.2        | NA                            | NA          | 28.3                    | 7.1         | No           | Yes          |

REMARKS: None

DRIVER: Karen Easterday

RECORDED BY: Karen Easterday DATE: 11-05-08

APPROVED BY: R. Landes

**DATA SHEET 4**

|                        |                |                       |          |                      |        |
|------------------------|----------------|-----------------------|----------|----------------------|--------|
| VEHICLE:               | 2008 Zap Xebra | DATE:                 | 11/06/08 | NHTSA NUMBER:        | C81001 |
| TIRE PRESSURE (FRONT): | 36 psi         | TIRE PRESSURE (REAR): | 36 psi   | AMBIENT TEMP. °F:    | 54     |
| ODOMETER START:        | 99 km          | ODOMETER FINISH:      | 102 km   | WIND VELOCITY (MPH): | 6      |

**MAXIMUM SPEED**

MOTORCYCLE MAXIMUM SPEED DETERMINATION — Measure the speed that the motorcycle will attain in a distance of 1 mile from a standing start, but do not exceed 120 mi/h. If the speed is less than 60 mi/h, tests specified to commence at that speed shall be run at the multiple of 5 mi/h that is 4 mi/h to 8 mi/h less than the maximum speed measured.

**TEST CONDITIONS:**

|                                 |                                                                            |
|---------------------------------|----------------------------------------------------------------------------|
| Test Speed                      | Maximum speed attainable in 1mi. from a standing start on a level surface. |
| Initial Brake Temperature (IBT) | N/A                                                                        |
| Runs Required                   | Two runs shall be made in opposite directions.                             |

|           | DIRECTION | SPEED (mi/h) |
|-----------|-----------|--------------|
| Run No. 1 | South     | 37.677       |
| Run No. 2 | North     | 37.538       |

Average = 37.608 mi/h

REMARKS: None

DRIVER: Karen Easterday

RECORDED BY: Karen Easterday DATE: 11-06-08

APPROVED BY: R. Landes

**FMVSS 122 - DATA SHEET 5**  
**FIRST (PREBURNISHED) EFFECTIVENESS TEST (S7.3.1)**

|                        |                |                       |               |                      |        |
|------------------------|----------------|-----------------------|---------------|----------------------|--------|
| VEHICLE:               | 2008 Zap Xebra | DATE:                 | 11/06 & 10/08 | NHTSA NUMBER:        | C81001 |
| TIRE PRESSURE (FRONT): | 36 psi         | TIRE PRESSURE (REAR): | 36 psi        | AMBIENT TEMP. °F:    | 57     |
| ODOMETER START:        | 102 km         | ODOMETER FINISH:      | 125 km        | WIND VELOCITY (MPH): | 10     |

**TEST CONDITIONS:**

|                                          |                                                        |                                                        |
|------------------------------------------|--------------------------------------------------------|--------------------------------------------------------|
| Test Speed                               | 30 mi/h                                                | 60 mi/h - NA                                           |
| Initial Brake Temperature (IBT)          | 130°F to 150°F                                         | 130°F to 150°F                                         |
| Runs Required                            | 6                                                      | 6                                                      |
| Maximum Stop Distance Allowed            | 54 ft.                                                 | 216 ft.                                                |
| Maximum Allowable Brake Actuation Forces | Hand Lever Force ≤ 55 lb.<br>Foot Pedal Force ≤ 90 lb. | Hand Lever Force ≤ 55 lb.<br>Foot Pedal Force ≤ 90 lb. |
| Wheel Lockup                             | No                                                     | No                                                     |
| Brakes Utilized                          | Foot Pedal                                             | Foot Pedal                                             |

30 mi/h DATA —

| Stop No. | Test Speed (mi/h) | Initial Brake Temp. (°F) |             | Actual Stopping Distance (ft.) | Corrected Stopping Distance (ft.) | Brake Pedal Force (lbs.) |       | Rear Brake Lever Force (lbs.) |       | Vehicle Decel. (ft./s/s) |       | Wheel Lockup | Stay In Lane - Dir. |
|----------|-------------------|--------------------------|-------------|--------------------------------|-----------------------------------|--------------------------|-------|-------------------------------|-------|--------------------------|-------|--------------|---------------------|
|          |                   | Front                    | Rear (avg.) |                                |                                   | M a x                    | A v g | M a x                         | A v g | M a x                    | A v g |              |                     |
| 1        | 30.40             | 101                      | 135         | 67.58                          | 65.82                             | 74.1                     | 55.9  | NA                            | NA    | 28.6                     | 15.5  | No           | Yes-S               |
| 2        | 30.17             | 115                      | 146         | 67.64                          | 66.88                             | 58.4                     | 55.2  | NA                            | NA    | NA                       | 15.3  | No           | Yes-S               |
| 3        | 30.34             | 112                      | 139         | 68.55                          | 67.02                             | 68.1                     | 60.5  | NA                            | NA    | 32.1                     | 15.5  | No           | Yes-S               |
| 4        | 29.99             | 118                      | 144         | 55.84                          | 55.88                             | 75.3                     | 60.4  | NA                            | NA    | 36.2                     | 17.7  | No           | Yes-S               |
| 5        | 29.58             | 118                      | 143         | 73.79                          | 75.04                             | 89.1                     | 48.0  | NA                            | NA    | 39.1                     | 12.8  | RRX-In.      | Yes-S               |
| 6        | 29.48             | 119                      | 142         | 76.80                          | 79.54                             | 55.1                     | 47.5  | NA                            | NA    | 29.5                     | 13.5  | No           | Yes-S               |
| 7        | 29.66             | 106                      | 138         | 57.53                          | 58.86                             | 81.1                     | 59.1  | NA                            | NA    | 31.3                     | 17.4  | RRX-In.      | Yes-N               |
| 8        | 29.89             | 112                      | 143         | 61.54                          | 62.00                             | 101.6                    | 57.8  | NA                            | NA    | 42.6                     | 15.0  | No           | Yes-N               |
| 9        | 29.55             | 114                      | 141         | 64.69                          | 66.67                             | 63.9                     | 53.5  | NA                            | NA    | 27.2                     | 16.1  | No           | Yes-N               |
| 10       | 30.13             | 104                      | 128         | 58.41                          | 57.91                             | 74.2                     | 62.1  | NA                            | NA    | 30.9                     | 18.4  | No           | Yes-N               |
| 11       | 30.04             | 102                      | 130         | 58.59                          | 58.43                             | 76.6                     | 62.4  | NA                            | NA    | 31.4                     | 18.4  | No           | Yes-N               |
| 12       | 30.32             | 112                      | 143         | 62.67                          | 61.36                             | 92.2                     | 88.6  | NA                            | NA    | 41.4                     | 17.2  | RRX-In.      | Yes-N               |
| 13       | 30.26             | 103                      | 138         | 68.53                          | 67.36                             | 119.8                    | 48.7  | NA                            | NA    | 37.4                     | 13.9  | No           | Yes-N               |
| 14       | 30.19             | 114                      | 138         | 63.69                          | 62.89                             | 74.9                     | 53.5  | NA                            | NA    | 33.5                     | 16.7  | No           | Yes-N               |
| 15       | 30.67             | 116                      | 141         | 59.25                          | 56.69                             | 91.0                     | 63.1  | NA                            | NA    | 39.4                     | 18.7  | No           | Yes-N               |
| 16       | 29.56             | 150                      | 138         | 58.17                          | 59.91                             | 74.0                     | 54.1  | NA                            | NA    | 32.8                     | 17.6  | No           | Yes-N               |
| 17       | 29.75             | 136                      | 137         | 55.45                          | 56.38                             | 76.0                     | 61.0  | NA                            | NA    | 36.2                     | 18.8  | No           | Yes-N               |
| 18       | 30.05             | 124                      | 137         | 57.55                          | 57.36                             | 85.8                     | 61.2  | NA                            | NA    | 42.9                     | 18.6  | No           | Yes-N               |
| 19       | 30.25             | 119                      | 138         | 63.76                          | 62.71                             | 77.7                     | 57.4  | NA                            | NA    | 33.7                     | 17.5  | No           | Yes-N               |
| 20       | 30.76             | 122                      | 140         | 60.04                          | 57.11                             | 77.6                     | 57.1  | NA                            | NA    | 33.4                     | 18.1  | No           | Yes-N               |

**REMARKS:** K. Easterday driver stops 1 thru 12, A. Ida driver stops 13 thru 20. Stops 1 thru 6: 11/06/08, the remainder performed on 11/10/08. Data Sheet 6 not required.

**DRIVER:** Karen Easterday and Alan Ida

**RECORDED BY:** Karen Easterday and Alan Ida **DATE:** 11-06 & 10-08

**APPROVED BY:** R. Landes

**FMVSS 122 - DATA SHEET 7  
BURNISH PROCEDURE (S7.4)**

|                        |                |                       |          |                      |            |
|------------------------|----------------|-----------------------|----------|----------------------|------------|
| VEHICLE:               | 2008 Zap Xebra | DATE:                 | 11/06/08 | NHTSA NUMBER:        | C81001     |
| TIRE PRESSURE (FRONT): | 36 psi         | TIRE PRESSURE (REAR): | 36 psi   | AMBIENT TEMP. °F:    | 23 Initial |
| ODOMETER START:        | 107 km         | ODOMETER FINISH:      | 343 km   | WIND VELOCITY (MPH): | 15 Initial |

**TEST CONDITIONS:**

|                                 |                                                                                                                                                          |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Speed                      | 30 mi/h                                                                                                                                                  |
| Initial Brake Temperature (IBT) | 130°F to 150°F                                                                                                                                           |
| Runs Required                   | 200                                                                                                                                                      |
| Deceleration Rate               | 12 ft/s/s                                                                                                                                                |
| Actuation Forces                | Hand Lever and foot pedal force limits do not apply during this procedure.                                                                               |
| Cooling Speed                   | Accelerate at maximum rate to 30 mi/h immediately and maintain that speed until making the next stop                                                     |
| Stop Interval                   | The braking interval shall be either the distance necessary to reduce the brake temperature to between 130°F and 150°F or 1 mile, whichever comes first. |
| Post Burnish Adjustments        | After burnishing adjust the brakes in accordance with the manufacturer's recommendation.                                                                 |
| Wheel Lockup                    | NA                                                                                                                                                       |
| Brakes Utilized                 | Foot Pedal                                                                                                                                               |

**BURNISH**

| Stop No. | Test Speed (mi/h) | Initial Brake Temp. (°F) |             |  |  | Brake Pedal Force (lbs.) |       | Rear Brake Lever Force (lbs.) |       | Vehicle Decel. (ft./s/s) |       | Wheel Lockup | Stay In Lane - Dir. |
|----------|-------------------|--------------------------|-------------|--|--|--------------------------|-------|-------------------------------|-------|--------------------------|-------|--------------|---------------------|
|          |                   | Front                    | Rear (avg.) |  |  | M a x                    | A v g | M a x                         | A v g | M a x                    | A v g |              |                     |
| 1        | NA                | NA                       | NA          |  |  | NA                       |       | NA                            |       | NA                       | NA    | No           | Yes                 |
| 25       | 29.85             | 104                      | 164         |  |  | 35.7                     |       | NA                            |       | 23.7                     | 8.5   | No           | Yes                 |
| 50       | 30.55             | 123                      | 163         |  |  | 25.1                     |       | NA                            |       | 22.6                     | 8.8   | No           | Yes                 |
| 75       | 30.26             | 128                      | 168         |  |  | 40.1                     |       | NA                            |       | NA                       | 9.9   | No           | Yes                 |
| 100      | 29.78             | 126                      | 165         |  |  | 33.6                     |       | NA                            |       | 20.1                     | 8.8   | No           | Yes                 |
| 125      | 28.17             | 95                       | 136         |  |  | 39.4                     |       | NA                            |       | 25.4                     | 9.3   | No           | Yes                 |
| 150      | 30.56             | 93                       | 127         |  |  | 25.2                     |       | NA                            |       | 27.6                     | 8.8   | No           | Yes                 |
| 175      | 29.75             | 97                       | 133         |  |  | 36.3                     |       | NA                            |       | 26.3                     | 8.5   | No           | Yes                 |
| 200      | 29.82             | 102                      | 139         |  |  | 30.7                     |       | NA                            |       | 36.5                     | 9.2   | No           | Yes                 |

**Note:**

**REMARKS:** Due to restricted range and constant recharging and weather issues, the burnish took many days.

**DRIVER:** Karen Easterday

**RECORDED BY:** Karen Easterday

**DATE:** 11/06 - 25/08

**APPROVED BY:** R. Landes

**FMVSS 122 - DATA SHEET 8 (1 of 2)**  
**SECOND EFFECTIVENESS TEST (S7.5)**

|                        |                |                       |          |                      |        |
|------------------------|----------------|-----------------------|----------|----------------------|--------|
| VEHICLE:               | 2008 Zap Xebra | DATE:                 | 11/26/08 | NHTSA NUMBER:        | C81001 |
| TIRE PRESSURE (FRONT): | 36 psi         | TIRE PRESSURE (REAR): | 36 psi   | AMBIENT TEMP. °F:    | 37     |
| ODOMETER START:        | 346 km         | ODOMETER FINISH:      | 354 km   | WIND VELOCITY (MPH): | 12     |

**TEST CONDITIONS:**

|                                          |                                                          |                                                          |
|------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|
| Test Speed                               | 30 mi/h                                                  | 60 mi/h - NA                                             |
| Initial Brake Temperature (IBT)          | 130°F to 150°F                                           | 130°F to 150°F                                           |
| Runs Required                            | 6                                                        | 6                                                        |
| Maximum Stop Distance Allowed            | 43 ft.                                                   | 185 ft.                                                  |
| Maximum Allowable Brake Actuation Forces | Hand Lever Force ≤ 55 lbs.<br>Foot Pedal Force ≤ 90 lbs. | Hand Lever Force ≤ 55 lbs.<br>Foot Pedal Force ≤ 90 lbs. |
| Wheel Lockup                             | No                                                       | No                                                       |
| Brakes Utilized                          | Foot Pedal                                               | Foot Pedal                                               |

30 mi/h DATA —

| Stop No. | Test Speed (mi/h) | Initial Brake Temp. (°F) |             | Actual Stopping Distance (ft.) | Corrected Stopping Distance (ft.) | Brake Pedal Force (lbs.) |       | Rear Brake Lever Force (lbs.) |       | Vehicle Decel. (ft./s/s) |       | Wheel Lockup | Stay In Lane |
|----------|-------------------|--------------------------|-------------|--------------------------------|-----------------------------------|--------------------------|-------|-------------------------------|-------|--------------------------|-------|--------------|--------------|
|          |                   | Front                    | Rear (avg.) |                                |                                   | M a x                    | A v g | M a x                         | A v g | M a x                    | A v g |              |              |
| 1        | 30.28             | 108                      | 129         | 56.36                          | 55.32                             | 83.8                     | 48.7  | NA                            | NA    | 32.6                     | 17.2  | Yes          | Yes-S        |
| 2        | 29.84             | 114                      | 131         | 59.31                          | 59.94                             | 67.6                     | 63.4  | NA                            | NA    | 29.2                     | 16.3  | No           | Yes-S        |
| 3        | 29.99             | 121                      | 140         | 61.15                          | 61.19                             | 60.8                     | 56.1  | NA                            | NA    | 33.0                     | 16.7  | No           | Yes-N        |
| 4        | 29.24             | 113                      | 134         | 59.61                          | 62.75                             | 61.6                     | 42.7  | NA                            | NA    | 30.1                     | 16.8  | No           | Yes-N        |
| 5        | 28.78             | 116                      | 136         | 58.35                          | 63.40                             | 51.1                     | 30.4  | NA                            | NA    | 29.3                     | 16.4  | No           | Yes-N        |
| 6        | 29.23             | 113                      | 140         | 50.76                          | 53.47                             | 69.4                     | 45.6  | NA                            | NA    | 39.5                     | 18.7  | No           | Yes-N        |
| 7        | 30.26             | 114                      | 142         | 59.98                          | 58.27                             | 77.3                     | 54.8  | NA                            | NA    | 38.1                     | 18.2  | Yes          | Yes-N        |
| 8        | 30.34             | 115                      | 141         | 59.29                          | 58.00                             | 72.5                     | 48.9  | NA                            | NA    | 35.5                     | 18.7  | No           | Yes-N        |
| 9        | 29.53             | 116                      | 141         | 55.96                          | 57.76                             | 71.6                     | 49.6  | NA                            | NA    | 42.4                     | 17.9  | No           | Yes-N        |
| 10       | 29.82             | 110                      | 136         | 57.21                          | 57.90                             | 69.5                     | 55.3  | NA                            | NA    | 33.9                     | 18.5  | No           | Yes-N        |
| 11       | 30.40             | 115                      | 139         | 54.02                          | 52.61                             | 68.2                     | 55.5  | NA                            | NA    | 41.6                     | 19.3  | No           | Yes-N        |
| 12       | 30.03             | 113                      | 139         | 58.40                          | 58.28                             | 77.1                     | 49.2  | NA                            | NA    | 42.9                     | 16.8  | Yes          | Yes-N        |
| 13       | 29.91             | 112                      | 136         | 56.32                          | 56.66                             | 74.0                     | 57.0  | NA                            | NA    | 35.2                     | 18.7  | No           | Yes-N        |
| 14       | 29.94             | 111                      | 140         | 51.34                          | 51.55                             | 73.5                     | 57.9  | NA                            | NA    | 35.3                     | 19.4  | No           | Yes-N        |

REMARKS: Karen Easterday performed stops 1 thru 6, Alan Ida performed stops 7 thru 14.

DRIVER: Karen Easterday and Alan Ida

RECORDED BY: Karen Easterday and Alan Ida

DATE: 11-26-08

APPROVED BY: R. Landes

## APPENDIX A

### INSTRUMENT CALIBRATION (12 MONTH MAXIMUM INTERVAL)

VEHICLE: 2008 Zap Xebra

NHTSA NO: C81001

Date: 10/03/08

| INSTRUMENT                                                           | IDENTIFICATION/SERIAL NUMBER | CALIBRATION DATE | NEXT CALIBRATION |
|----------------------------------------------------------------------|------------------------------|------------------|------------------|
| Data Acquisition System – VBOX 3                                     | 030904                       | 11-10-07         | 11-10-08         |
| Software – Racelogic VBOX Tools                                      | V1.8.2, Build 0014           | N/A              | N/A              |
| Hand Lever Force Transducer – Vishay Micromasurement, 350 Ohm, ¼ in. | NA - Custom                  | Per Test         | Per Test         |
| Hand Lever Force Amplification – Honeywell                           | 954487                       | Per Test         | Per Test         |
| Pedal Force Transducer – Datron                                      | 44226                        | 4/28/08          | 4/28/09          |
| Accelerometer – Ammco U-Tube (Visual)                                | DEC-1                        | 08-14-08         | 08-14-09         |
| Accelerometer – GPS based within VBOX3                               | 030904                       | 11-10-07         | 11-10-08         |
| Fifth Wheel – GPS based within VBOX3                                 | 030904                       | 11-10-07         | 11-10-08         |
| Wind Velocity/Direction Gauge – Davis Model 6410                     | 050608N22                    | 07-11-08         | 07-12-09         |
| Ambient Temperature Gauge – Davis Model 6150C                        | 050608N02                    | 07-11-08         | 07-12-09         |
| VBOX3                                                                | NA                           | 11-10-07         | 11-10-08         |
| Tire Pressure Gauge – WIKA                                           | AG-101                       | 09-15-08         | 12-15-08         |
| Vehicle Weight – Toledo/Mettler Scales JAGXTREME 3000, (Bldg. 70)    | SN 5225831-5JC               | 08-06-08         | 11-06-08         |

QUALITY ASSURANCE Randy Landes

**Comments:**

## **APPENDIX B**

### **TEST VEHICLE PHOTOGRAPHS**



2008 Zap Xebra  
Motorcycle  
NHTSA No. C81001  
November 2008

Left Front 3/4 View



2008 Zap Xebra  
Motorcycle  
NHTSA No. C81001  
November 2008

Right Rear 3/4 View

|                                                                                                                                               |                  |               |                   |           |
|-----------------------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|-------------------|-----------|
| MANUFACTURED BY: CHINA QINGQI GROUP INC.                                                                                                      |                  | DATE: 02/2008 | TYPE: MOTORCYCLE  |           |
| GVWR: 1137 KG (2459 LB)                                                                                                                       |                  |               | COLD INFL. PRESS. |           |
|                                                                                                                                               | GAWR             | TIRE          | RIM               | KPA (PSI) |
| FRONT                                                                                                                                         | 396 KG (871 LB)  | 145R12C       | 4.00BX12          | 250 (36)  |
| REAR                                                                                                                                          | 741 KG (1630 LB) | 145R12C       | 4.00BX12          | 250 (36)  |
| THIS VEHICLE CONFORMS TO ALL APPLICABLE U.S. FEDERAL MOTOR VEHICLE SAFETY STANDARDS (FMVSS) IN EFFECT ON THE DATE OF MANUFACTURE SHOWN ABOVE. |                  |               |                   |           |
| V.I.N.: LAEMA24668G200113                                                                                                                     |                  |               |                   |           |

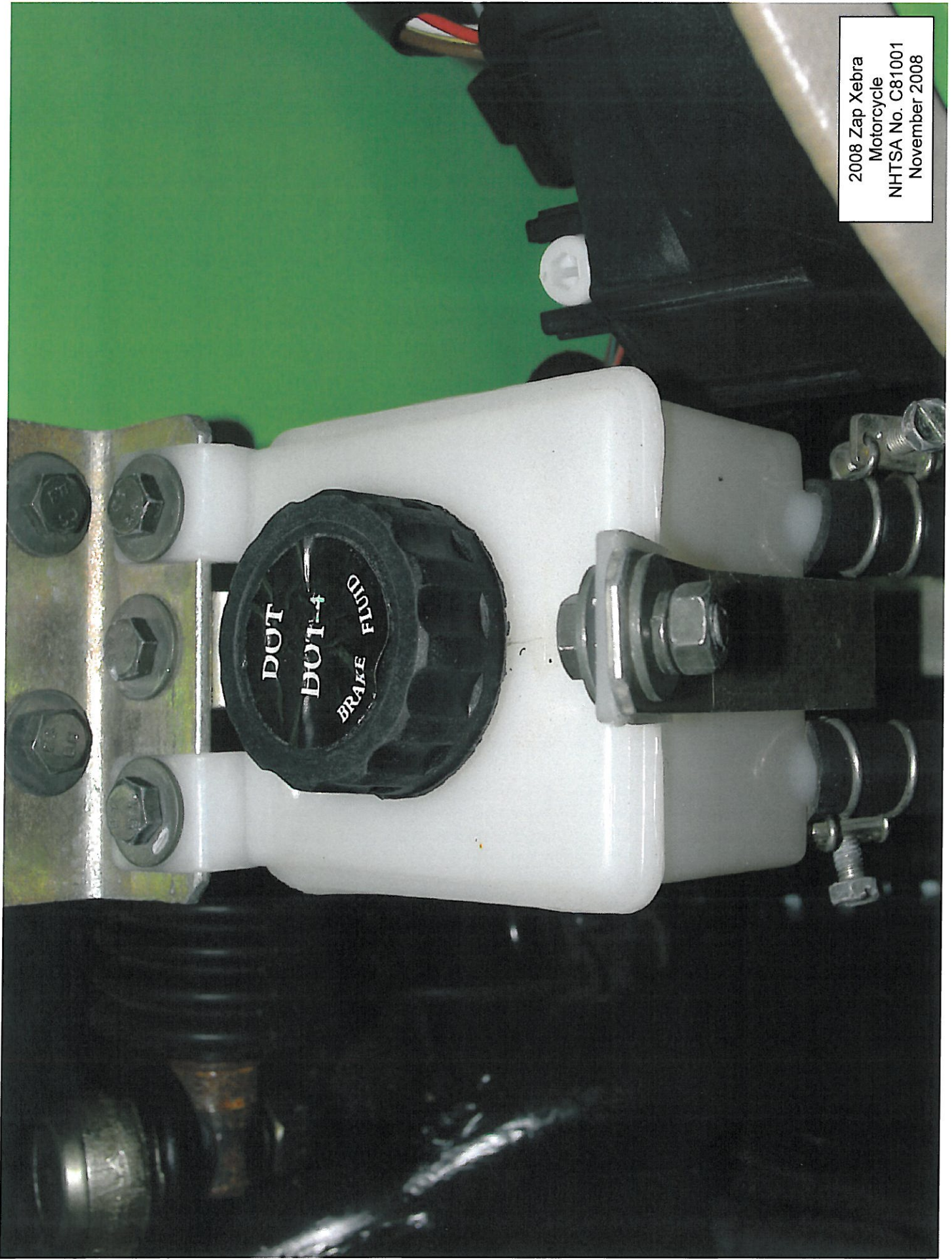
2008 Zap Xebra  
Motorcycle  
NHTSA No. C81001  
November 2008

Vehicle Certification Label

DOT 4-00BX12 GJ 2007 12

2008 Zap Xebra  
Motorcycle  
NHTSA No. C81001  
November 2008

FMVSS 120 Wheel Information Label (Typical Front and Rear)

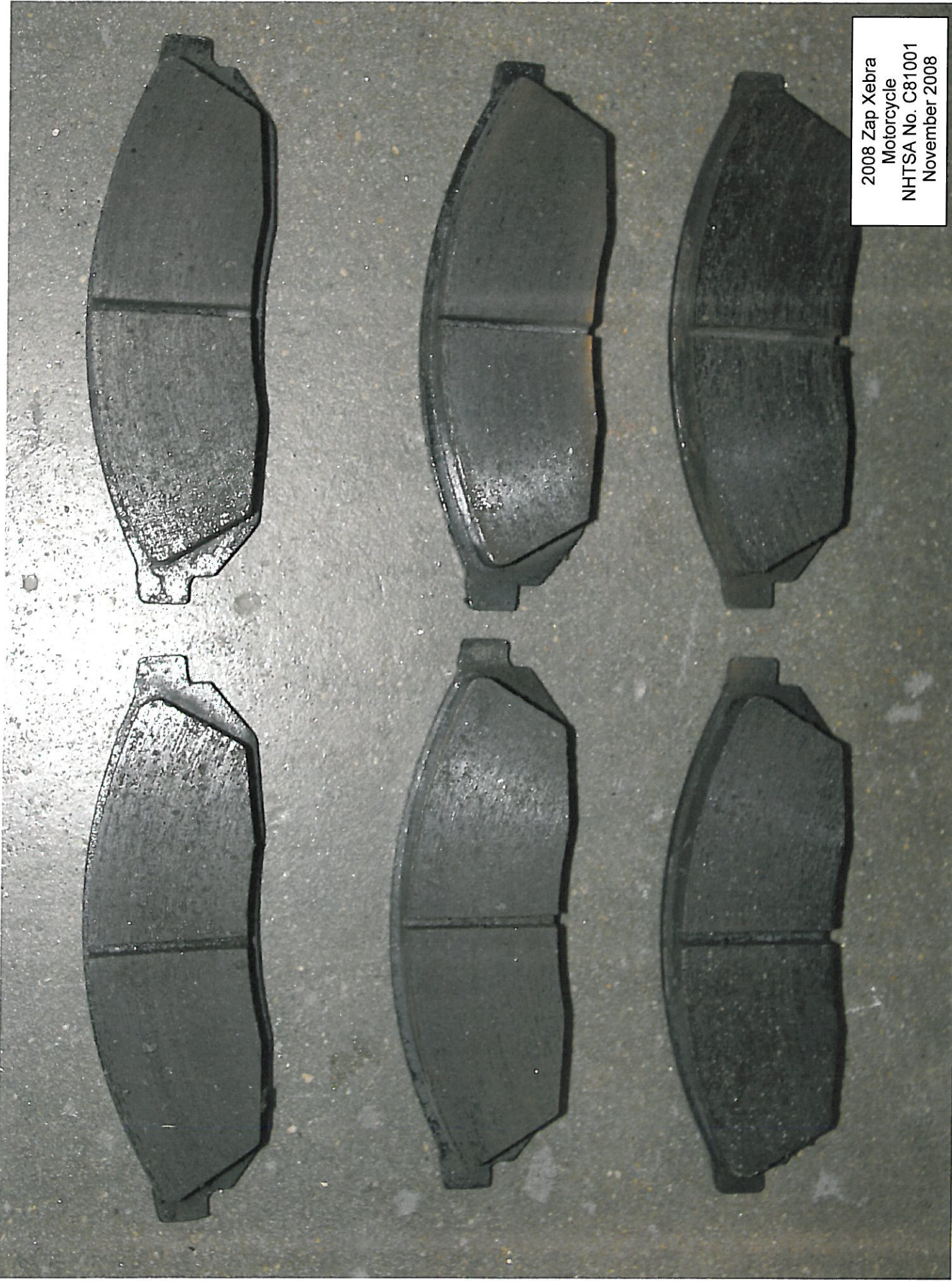


2008 Zap Xebra  
Motorcycle  
NHTSA No. C81001  
November 2008

Master Cylinder Label (Reservoir Cover)

2008 Zap Xebra  
Motorcycle  
NHTSA No. C81001  
November 2008

Pre-Test Front and Rear Brake Pads



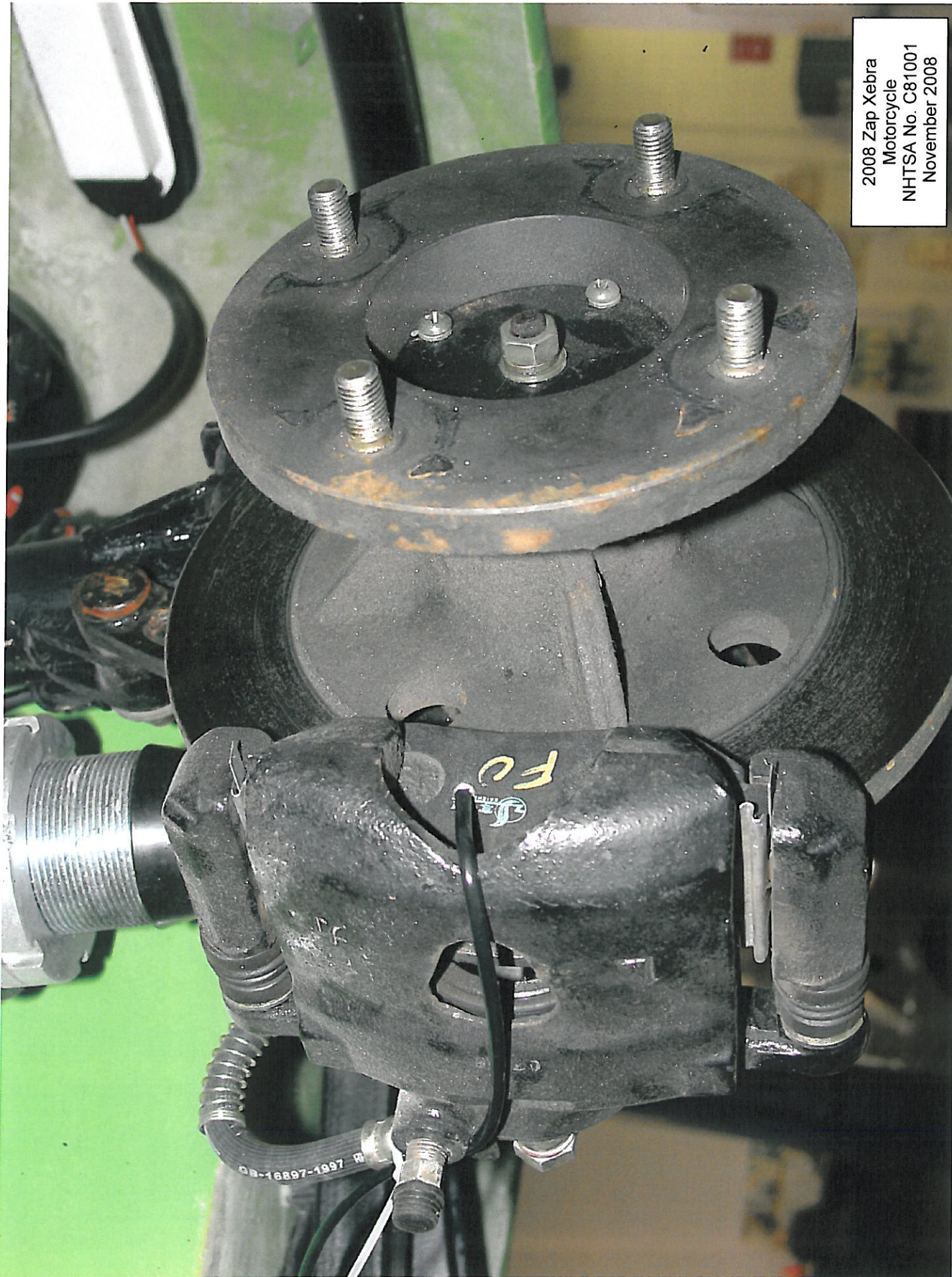


2008 Zap Xebra  
Motorcycle  
NHTSA No. C81001  
November 2008

Pre-Test Right Front Pad Installation

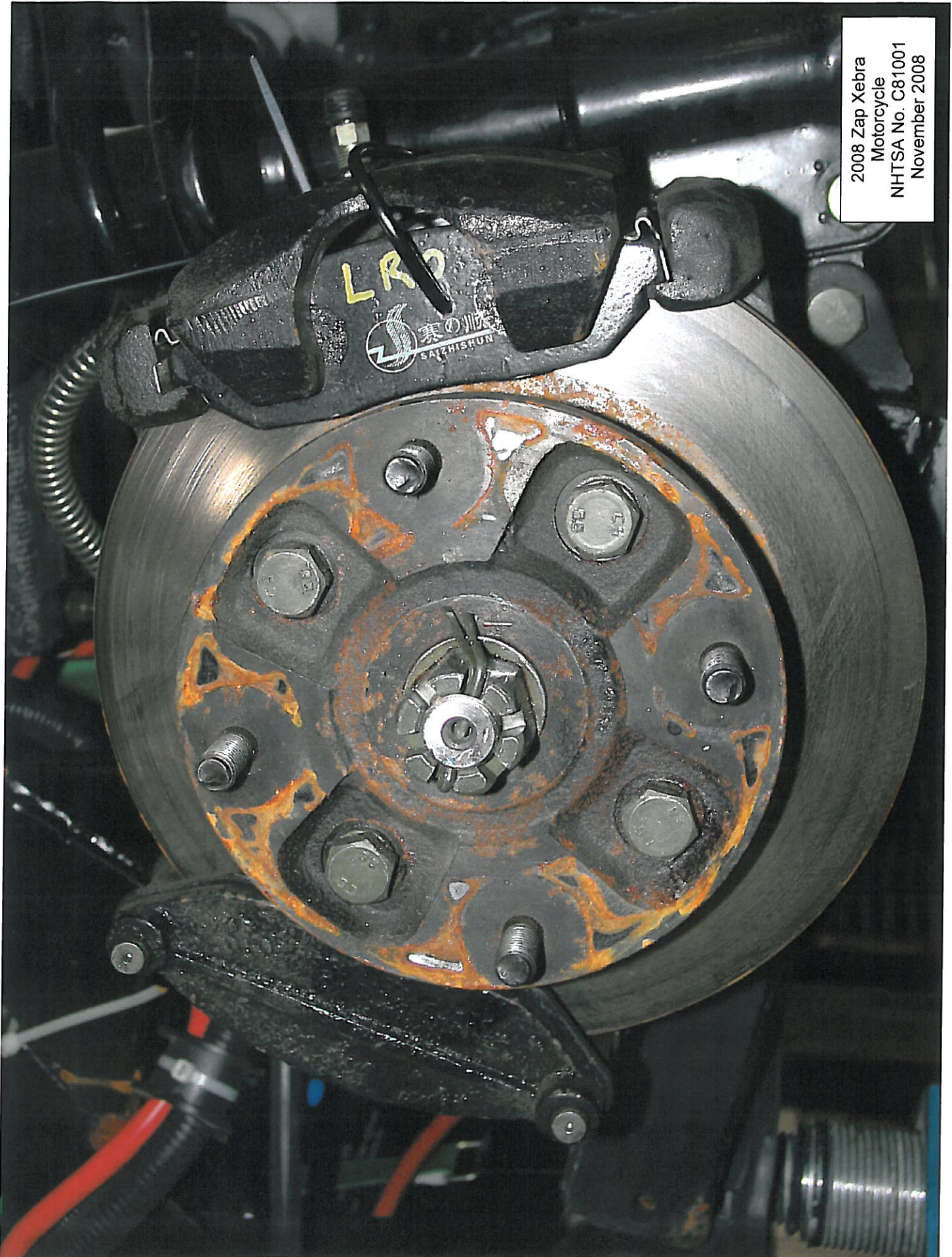
2008 Zap Xebra  
Motorcycle  
NHTSA No. C81001  
November 2008

Pre-Test Front Pad Installation



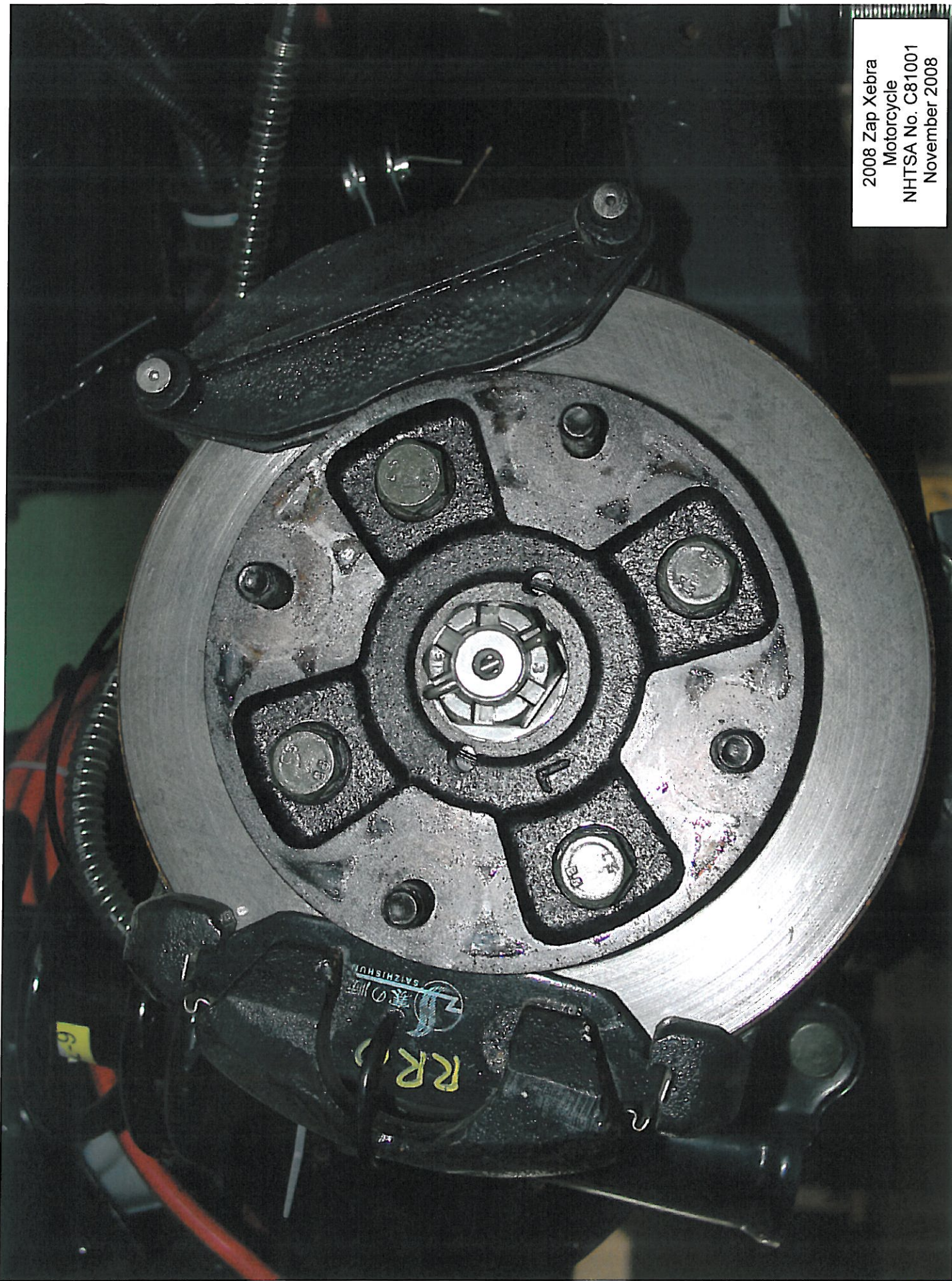
2008 Zap Xebra  
Motorcycle  
NHTSA No. C81001  
November 2008

Pre-Test Left Rear Pad Installation



2008 Zap Xebra  
Motorcycle  
NHTSA No. C81001  
November 2008

Pre-Test Right Rear Pad Installation



**APPENDIX C**  
**CONTRACTOR'S COMMENTS**  
**PROCEDURE MODIFICATION (IF APPLICABLE)**  
**TEST FACILITY**

### CONTRACTOR'S COMMENTS

The Zap Xebra did not comply with the stopping distance requirements for the both the First and Second Effectiveness tests. Therefore, additional stops were performed with a different driver to verify the vehicle's brake performance. The stopping distances performed with the second driver yielded similar results. Due to multiple failures, NHTSA COTR instructed TRC to discontinue testing after the 2<sup>nd</sup> Effectiveness Test.

### PROCEDURE MODIFICATION

The maximum average speed obtained for the Zap Xebra was 37.6 mph. Therefore, only the 30 mph stops were performed for the First and Second Effectiveness tests. Although the vehicle did not comply with the First Effectiveness test, the test continued with a 200-stop brake burnish to verify if there was an improvement in stopping performance for the Second Effectiveness test.

### TRC SKID PAD

The Skid Pad is a test facility which is utilized primarily for the evaluation of tire and brake systems.

The overall dimensions of the pad are 9,000 feet by 84 feet with loops on the north and south ends. Both turnaround loops have a 309-foot radius and are 16 feet wide with a 25 percent super elevation. They will accommodate speeds of 45 mph with zero side force and 60 mph with .5 g's lateral acceleration. The acceleration/deceleration lanes at each end are 3,280 feet in length.

A test area of 210,000 square feet is situated in the center of the skid pad containing several test pads with varying surface textures. Skid numbers in this area range from 30 (wet) to 80 (dry).

The skid pad is paved with Portland cement. The load capacity of the skid pad is 36,000 pounds maximum single axle weight and 48,000 pounds maximum tandem axle weight.

Varying surface textures in the main test area are ideal for testing tire and/or brake system performance on different surfaces as characterized by "skid numbers." The skid pad is also used for acceleration studies, aerodynamics, rolling resistance, noise testing, and vehicle top speed determination.

**APPENDIX D**  
**NOTICE OF POSSIBLE NON-COMPLIANCE**

## LABORATORY NOTICE OF TEST FAILURE TO OVSC

FMVSS NO.: 122

TEST DATE: 10/03/08

LABORATORY: Transportation Research Center Inc. (TRC)

CONTRACT NO.: DTNH22-06-C-00033 ; DELV. ORDER NO.: Base Year

LABORATORY PROJECT ENGINEER'S NAME: Alan Ida

TEST VEH. MAKE/MODEL: Zap Xebra

VEHICLE NHTSA NO.: C81001 ; VIN: LAEMA24668G200113

VEHICLE MODEL YEAR: 2008 ; BUILD DATE: 02/2008

TEST FAILURE DESCRIPTION: Reservoir label is not correctly worded nor are some of the letters at least the minimum required height.

The reservoir label is adhered to the top on the master cylinder reservoir cap in contrasting colors (black background, primarily white and some green lettering). Letters measuring 0.143 in. high state "DOT" and "DOT-4" and letter measuring 0.078 in. high state: "BRAKE FLIUD".

S122 REQUIREMENT, PARAGRAPH \_\_\_\_ : S5.1.2.2 *Reservoir Labeling*. Each motorcycle shall have a brake fluid warning statement that reads as follows, in letters at least three thirty-seconds of an inch high: "Warning: Clean filler cap before removing. Use only \_\_\_\_ fluid from a sealed container." (Inserting the recommended type of brake fluid as specified in 49 CFR 571.116.)

Note: 3/32 in. = 0.09375 in.

NOTIFICATION TO NHTSA (COTR): Via email.

DATE: 10/03/08 BY: Alan Ida

REMARKS: Label is somewhat "wrinkled", not flat/smooth on the top of the cap.

**LABORATORY NOTICE OF TEST FAILURE TO OVSC**

FMVSS NO.: 122

TEST DATE: 11/06/08

LABORATORY: Transportation Research Center Inc. (TRC)

CONTRACT NO.: DTNH22-06-C-00033 ; DELV. ORDER NO.: Base Year

LABORATORY PROJECT ENGINEER'S NAME: Alan Ida

TEST VEH. MAKE/MODEL: Zap Xebra

VEHICLE NHTSA NO.: C81001 ; VIN: LAEMA24668G200113

VEHICLE MODEL YEAR: 2008 ; BUILD DATE: 02/2008

TEST FAILURE DESCRIPTION: For First (Pre-burnished) Effectiveness Test (S7.3.1) and after the standard six attempts and then multiple extra stops by two different drivers, the vehicle did not stop within the maximum allowable distance.

S122 REQUIREMENT, PARAGRAPH \_\_\_\_ : S5.2.1 *Service brake system*. The service brakes shall be capable of stopping the motorcycle from 30 m.p.h. and 60 m.p.h. within stopping distances which do not exceed the stopping distances specified in Column I of Table I (S7.3.1). Note: Column I distance is: 54 ft.

NOTIFICATION TO NHTSA (COTR): Via telephone.

DATE: 11/06/08 BY: Alan Ida

REMARKS: Vehicle attained a maximum speed of 37 mph and therefore, performed only 30 mph effectiveness stops.

**LABORATORY NOTICE OF TEST FAILURE TO OVSC**

FMVSS NO.: 122

TEST DATE: 11/26/08

LABORATORY: Transportation Research Center Inc. (TRC)

CONTRACT NO.: DTNH22-06-C-00033 ; DELV. ORDER NO.: Base Year

LABORATORY PROJECT ENGINEER'S NAME: Alan Ida

TEST VEH. MAKE/MODEL: Zap Xebra

VEHICLE NHTSA NO.: C81001 ; VIN: LAEMA24668G200113

VEHICLE MODEL YEAR: 2008 ; BUILD DATE: 02/2008

TEST FAILURE DESCRIPTION: For Second Effectiveness Test (S7.5) and after the standard six attempts and then multiple extra stops by two different drivers, the vehicle did not stop within the maximum allowable distance.

S122 REQUIREMENT, PARAGRAPH \_\_\_\_ : S5.3 *Service brake system – second effectiveness*. The service brakes shall be capable of stopping the motorcycle from 30 m.p.h., 60 m.p.h., 80 m.p.h., and the multiple of 5 m.p.h. that is 4 m.p.h. to 8 m.p.h. less that the speed attainable in 1 mile if this speed is 95 m.p.h. or greater, within stopping distances which do not exceed the stopping distances specified in Column III of Table I (S7.5).

Note: Column III distance is: 43 ft.

NOTIFICATION TO NHTSA (COTR): Via telephone.

DATE: 11/26/08 BY: Alan Ida

REMARKS: Vehicle attained a maximum speed of 37 m.p.h. and therefore, performed only 30 m.p.h. effectiveness stops.