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Prepared By: [Signature]

Approved By: [Signature]

Approval Date: 09/04/03

FINAL REPORT ACCEPTANCE BY OVSC:

Accepted By: [Signature]

Acceptance Date: 09/19/03
Compliance tests were conducted on the subject, 2003 Dodge Dakota Pickup Truck in accordance with the specifications of the Office of Vehicle Safety Compliance Test Procedure No. TP-301-02 for the determination of FMVSS 301 compliance. Test failures identified were as follows:

**NONE**
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SECTION 1
PURPOSE OF COMPLIANCE TEST

1.0 PURPOSE OF COMPLIANCE TEST

A 2003 Dodge Dakota Pickup Truck was subjected to Federal Motor Vehicle Safety Standard (FMVSS) No. 301 testing to determine if the vehicle was in compliance with the requirements of the standard. The purpose of this standard is to reduce deaths and injuries occurring from fires that result from fuel spillage curing and after motor vehicle crashes, and resulting from ingestion of fuels during siphoning.

1.1 The test vehicle was a 2003 Dodge Dakota Pickup Truck. Nomenclature applicable to the test vehicle are:

A. Vehicle Identification Number: 1D7FL16X63S133971

B. NHTSA No.: C30307

C. Manufacturer: DAIMLERCHRYSLER CORPORATION

D. Manufacture Date: 09/02

1.2 TEST DATE

The test vehicle was subjected to FMVSS No. 301 testing on August 22, 2003.
SECTION 2

COMPLIANCE TEST RESULTS SUMMARY

2.0 TEST RESULTS

All tests were conducted in accordance with NHTSA, Office of Vehicle Safety Compliance (OVSC) Laboratory Procedure, TP-301-02 dated 8 November 1994 and General Testing Laboratories, Inc. (GTL) Test Procedure, TP-301-02, "Fuel System Integrity".

Based on the test performed, the 2003 Dodge Dakota Pickup Truck appears to meet the lateral impact requirements of FMVSS 301 testing.
SECTION 3

COMPLIANCE TEST DATA

3.0 TEST RESULTS

The following data sheets document the results of testing on the 2003 Dodge Dakota Pickup Truck.
SUMMARY OF RESULTS

Vehicle's NHTSA No.: C30307  Test Model: DAKOTA

Test Date: 08/22/03  Time: 13:40  Temperature 94 °F

Vehicle Model Year, Make, Model and Body Style:
2003 DODGE DAKOTA PICKUP TRUCK

Vehicle Test Weight: 4349 lbs.;  Impact Velocity: 19.35 mph

Type of Front Occupant Restraint System Installed in Test Vehicle:

Driver's DSP: TYPE 2 BELT WITH FRONTAL AIR BAG IN STEERING WHEEL

Right Passenger's DSP: TYPE 2 BELT WITH FRONTAL AIR BAG IN DASH

Stoddard solvent spillage from Vehicle's Fuel System: None

REMARKS:

RECORDED BY:  DATE: 08/22/03

APPROVED BY:  

DATA SHEET 1
TEST VEHICLE SPECIFICATIONS

TEST VEHICLE INFORMATION:

NHTSA No.: C30307
Year/Make/Model/Body Style: 2003 DODGE DAKOTA PICKUP
Engine Data: 3.9 LITER V6
Transmission Data: 4 SPEED AUTOMATIC
Final Drive Data: REAR WHEEL DRIVE
Major Options: CUSTOMER PREFERRED PACKAGE, TILT WHEEL
Date Received: 08/12/03; Odometer Reading: 1279 miles

DATA FROM VEHICLE'S CERTIFICATION LABEL:

Vehicle Manufactured By: DAIMLERCHRYSLER CORPORATION
Date of Manufacture: 09/02
VIN: 1D7FL16X63S133971
GVWR: 2268 kg (5000 lbs.); GAWR Front: 1407 kg (3100 lbs.) GAWR Rear: 1409 kg (3106 lbs.)

DATA FROM VEHICLE'S TIRE PLACARD:

Location of Placard on Vehicle: DRIVER'S “B” PILLAR
Tire Pressure With Maximum Capacity Vehicle Load —
  Front: 35 psi; Rear: 35 psi
Recommended Tire Size: P245/70R16
Recommended Cold Tire Pressure: Front = 206 kPa (30 psi) Rear = 206 kPa (30 psi)
Size of Tires on Test Vehicle: P255/65R16
Type of Spare Tire: FULL SIZE
*NOTE: Data from supplement sheet in glove box

Vehicle Capacity Data —

Type of Front Seat(s): BUCKET
Number of Occupants: Front = 2; Mid = 0; Rear = 0; Total = 2

A. VEHICLE CAPACITY WEIGHT (VCW) = 1262 lbs.
B. Number of Occupants x 150 lbs. = 300 lbs.
RATED CARGO AND LUGGAGE WEIGHT (RCLW) = A - B = 962 lbs.

RECORDED BY: ________________________ DATE: 08/22/03
APPROVED BY: ________________________
DATA SHEET 2
PRE-TEST DATA

WEIGHT OF TEST VEHICLE:

A. As Received At Laboratory (Maximum Fluids) —

Right Front = 491 kg (1082 lbs.)  Right Rear = 350 kg (772 lbs.)

Left Front = 511 kg (1127 lbs.)  Left Rear = 343 kg (757 lbs.)

TOTAL FRONT = 1002 kg (2209 lbs.) TOTAL REAR = 694 kg (1529 lbs.)

% of TOTAL = 59%  % of TOTAL = 41%

TOTAL DELIVERED WEIGHT = 1696 kg (3738 lbs.)

B. Calculation of Target Test Weight —

1. Total Delivered Weight = 1696 kg (3738 lbs.)

2. Rated Cargo & Lugg. Weight (RCLW) = 136 kg (300 lbs.)

3. Weight of 2 Dummies (164 lbs. each) = 149 kg (328 lbs.)

TARGET TEST WEIGHT = 1 + 2 + 3 = 1980 kg (4366 lbs.)

C. Vehicle, Dummies and 136 kg (300 lbs.) of Cargo Weight —

Right Front = 536 kg (1181 lbs)  Right Rear = 446 kg (984 lbs)

Left Front = 555 kg (1224 lbs)  Left Rear = 435 kg (960 lbs)

TOTAL FRONT = 1091 kg (2405 lbs) TOTAL REAR = 882 kg (1944 lbs)

% of TOTAL = 55%  % of TOTAL = 45%

TOTAL TEST WEIGHT = 1973 kg (4349 lbs)

Weight of Ballast secured in cargo area = 160 kg (352 lbs)

Type of Ballast: SALT BAGS

Method of Securing Ballast: RATCHET STRAPS TO CARGO TIE DOWN RING

Vehicle Components Removed for Weight Reduction:

NONE
TEST VEHICLE ATTITUDE:

As Delivered —  
Right Front: 855 mm (33.7 inches)  
Left Front: 858 mm (33.8 inches)  
Right Rear: 899 mm (35.0 inches)  
Left Rear: 887 mm (34.9 inches)

As Tested —  
Right Front: 840 mm (33.0 inches)  
Left Front: 845 mm (33.3 inches)  
Right Rear: 851 mm (33.5 inches)  
Left Rear: 852 mm (33.5 inches)

Vehicle's Wheelbase = 2845 mm (112 inches)

FUEL SYSTEM DATA:

Fuel System Capacity Listed in Owner's Manual = 83.3 liters (22 gallons)
Usable Capacity Figure Furnished By COTR = 83.3 liters (22 gallons)

Test Volume Range (91 to 94% of Usable Capacity) — 92.5%

75.8 liters (20.02 gallons) TO 78.3 liters (20.68 gallons)

ACTUAL TEST VOLUME = 77.0 liters (20.35 gallons) (with entire fuel system filled)

Test Fluid Type: Stoddard solvent
Test Fluid Specific Gravity: .7583
Test Fluid Kinematic Viscosity: 1.7 centistokes at 77° F
Test Fluid Color: BLUE ("red" is preferred)
Type of Vehicle Fuel Pump: ELECTRIC
Electric Fuel Pump Operation with Ignition Switch ON and Engine OFF — YES, FOR APPROXIMATELY 3 SECONDS

Details of Fuel System: SEQUENTIAL MULTI-PORT FUEL INJECTION WITHIN TANK PUMP

REMARKS:

RECORDED BY: [Signature]  DATE: 08/22/03
APPROVED BY: [Signature]
DATA SHEET 3
POST IMPACT DATA

TYPE OF TEST: 301L
TEST DATE: 08/22/03; TIME: 13:40; TEMP.: 94 °F
VEH. NHTSA NO.: C30307; VIN: 1D7FL16X63S133971

REQUIRED IMPACT VELOCITY RANGE: 18.9 to 19.9 mph

ACTUAL IMPACT VELOCITY: (speed traps located within 5 feet of impact plane)

Trap No. 1 = 19.4 mph
Trap No. 2 = 19.3 mph
Average Impact Speed = 19.35 mph

REMARKS:

RECORDED BY: [Signature]
APPROVED BY: [Signature]
DATE: 08/22/03
DATA SHEET 4
SUMMARY OF FMVSS 301 DATA

TEST VEHICLE NHTSA NO.: C30307; TEST DATE: 08/22/03

VEHICLE YEAR/MAKE/MODEL/BODY STYLE: 2003 DODGE DAKOTA

TYPE OF IMPACT: 301L

STODDARD SOLVENT SPILLAGE MEASUREMENT:

A. From impact until vehicle motion ceases —
   Actual = 0 oz.  Maximum Allowable = 1 ounce

B. For 5 minute period after vehicle motion ceases —
   Actual = 0 oz.  Maximum Allowable = 5 ounces

C. For next 25 minutes —
   Actual = 0 oz.  Maximum Allowable = 1 oz./minute

D. Provide Spillage Details: NONE

REMARKS:

RECORDED BY:  DATE: 08/22/03

APPROVED BY:
A. Test Phase = 0° to 90°

Determination of Stoddard Solvent Collection Time Period:

1. Rollover Fixture 90° Rotation Time = 1 minute, 35 seconds

(Specified Range is 1 to 3 minutes)

2. FMVSS 301 Position Hold Time = 5 minutes, 0 seconds

3. TOTAL = 6 minutes, 35 seconds

4. NEXT WHOLE MINUTE INTERVAL = 7 minutes

Actual Test Vehicle Stoddard Solvent Spillage:

1. First 5 minutes from onset of rotation = 0 oz.
   (5 oz. allowed)

2. 6th minute = 0 oz.
   (1 oz. allowed)

3. 7th minute = 0 oz.
   (1 oz. allowed)

4. 8th minute (if required) = N/A oz. (1 oz. allowed)

Provide Details of Stoddard Solvent Spillage Locations — NONE
B. Test Phase = 90° to 180°

Determination of Stoddard Solvent Collection Time Period:

1. Rollover Fixture 90°
   Rotation Time = __ minutes, __ seconds
   (Specified Range is 1 to 3 minutes)

2. FMVSS 301 Position Hold
   Time = 5 minutes, 0 seconds

3. TOTAL = __ minutes, __ seconds

4. NEXT WHOLE MINUTE INTERVAL = __ minutes

Actual Test Vehicle Stoddard Solvent Spillage:

1. First 5 minutes from onset of rotation = __ oz.
   (5 oz. allowed)

2. 6th minute = __ oz.
   (1 oz. allowed)

3. 7th minute = __ oz.
   (1 oz. allowed)

4. 8th minute (if required) = N/A oz. (1 oz. allowed)

Provide Details of Stoddard Solvent Spillage Locations — NONE
C. Test Phase = 180° to 270°

Determination of Stoddard Solvent Collection Time Period:

1. Rollover Fixture 90°
   Rotation Time = \[ \frac{1}{20} \text{ minutes} \] seconds

(Specified Range is 1 to 3 minutes)

2. FMVSS 301 Position Hold
   Time = 5 minutes, 0 seconds

3. TOTAL = \[ \frac{6}{20} \text{ minutes, } 20 \text{ seconds} \]

4. NEXT WHOLE MINUTE INTERVAL = \[ \frac{7}{20} \text{ minutes} \]

Actual Test Vehicle Stoddard Solvent Spillage:

1. First 5 minutes from onset of rotation = 0 oz.
   (5 oz. allowed)

2. 6th minute = 0 oz.
   (1 oz. allowed)

3. 7th minute = 0 oz.
   (1 oz. allowed)

4. 8th minute (if required) = N/A oz. (1 oz. allowed)

Provide Details of Stoddard Solvent Spillage Locations — NONE
D. Test Phase = 270° to 360°

Determination of Stoddard Solvent Collection Time Period:

1. Rollover Fixture 90°
   Rotation Time = 1 minute, 44 seconds

(Specified Range is 1 to 3 minutes)

2. FMVSS 301 Position Hold
   Time = 5 minutes, 0 seconds

3. TOTAL = 6 minutes, 44 seconds

4. NEXT WHOLE MINUTE INTERVAL = 7 minutes

Actual Test Vehicle Stoddard Solvent Spillage:

1. First 5 minutes from onset of rotation = 0 oz.
   (5 oz. allowed)

2. 6th minute = 0 oz.
   (1 oz. allowed)

3. 7th minute = 0 oz.
   (1 oz. allowed)

4. 8th minute (if required) = N/A oz. (1 oz. allowed)

Provide Details of Stoddard Solvent Spillage Locations — NONE
DATA SHEET 6
CAMERA LOCATION

VEHICLE NHTSA NO.: C30307 
TEST DATE: 06/22/03 

PHOTO PIT
TEST VEHICLE
NO STEEL GRATING ALLOWED OVER PHOTO PIT
CONCRETE PAD
TOW ROAD
MONORAIL

TOP VIEW

CAMERA 1 – REAR SIDE VIEW OF VEHICLE DURING CRASH
CAMERA 2 – FRONT SIDE VIEW OF VEHICLE DURING CRASH
CAMERA 3 – OVERHEAD VIEW OF ENTIRE IMPACT
CAMERA 4 – UNDERBODY VIEW OF FUEL TANK LOCATED IN PIT
### TABLE 1 - INSTRUMENTATION & EQUIPMENT LIST

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SECTION 5

PHOTOGRAPHS
SECTION 6

BARRIER INFORMATION
NOTES:
1. Face Plate 0.50 in. (19mm) thick cold rolled steel
2. All Inner Reinforcements 4.0 x 2.0 x 0.19 in. (102 x 51 x 5mm) Steel Tubing
3. Impact Surface above shown without .75 x 43 x 98 in.
   Plywood Face attached
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**TEST SET-UP OF COMMON CARRIAGE WITH 60" x 78" FLAT FACE IMPACT SURFACE INSTALLED:**

- LEFT FRONT WEIGHT 1081
- RIGHT FRONT WEIGHT 1079
- LEFT REAR WEIGHT 682
- RIGHT REAR WEIGHT 873
- TOTAL WEIGHT 3915

*EXCLUDING 3/4" PLYWOOD FACE

**DIMENSIONS FOR GTL 60" x 78" FLAT FACE IMPACT SURFACE**