

SAFETY TEST  
VEHICLE CRASH TEST LETTER

PAGE 01

VC05339 30 MPH REAR BARRIER, ZJJ74, 5.2L MPI ITEM ZJ8758  
1996 MVSS VALIDATION - 301.  
TEST DATE 12/31/94 ←

TEST PURPOSE PRIMARY, 1996 USA 301 VALIDATION.  
OBSERVE FUEL SYSTEM INTEGRITY.

IMPACT TYPE TARGET SPEED; 30.2 MPH  
DAMAGE LOCATION; REAR  
BARRIER TYPE; REAR TYPE IV  
BARRIER SURFACE; PLYWOOD  
DIRECTION; 0 DEGREES

VEHICLE BODY CLASS; ZJ  
CAR LINE; J  
BODY; 74  
ENGINE; 5.2 LITRE  
ENGINE NOTE; MPI  
TRANSMISSION; 4 SPEED AUTO 4X4  
TRANS. NOTE;  
VIN AS TESTED; 1J4GZ78Y6RC169162 MOD.  
VIN AS BUILT; 1J4GZ78Y6RC169162 MOD.

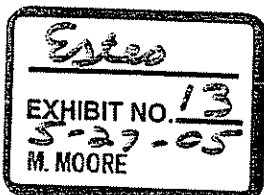
TEST SPEED 30.4 MPH - TRAP TIMER

TEST WEIGHT (LBS) 4805 TOTAL, 2717 FRONT, 2088 REAR

OCCUPANTS LEFT FRONT, HYB II, BALLAST. AD-53  
RESTRAINT-UNIBELT-ONLY.  
RIGHT FRONT, HYB II, BALLAST. AD-63  
RESTRAINT-UNIBELT-ONLY.

BUILD CONDITION 1994 PRODUCTION ZJ GRAND CHEROKEE, ZJ-8758.  
5.2L V8 ENGINE, 4 SPEED AUTO TRANS, 4X4  
POWER STEERING, A/C, ABS BRAKES, ROOF RACK.  
BUCKET SEATS (LEATHER) ON ELECTRIC TRACKS, FULL  
CONSOLE, DRIVER FOOT REST.  
P235/75R15 TIRES ON ALUMINUM WHEELS & FULL SPARE.  
ALUMINUM REAR AXLE.

TARGET WEIGHT (LBS) 4165 TOTAL, 2311 FRONT, 1852 REAR, REP MAX OPT WT.  
NOT INCLUDING OCCUPANTS OR LUGGAGE BALLAST.



DC 03992

SAFETY TEST  
VEHICLE CRASH TEST LETTER

PAGE 02

VC05339 30 MFH REAR BARRIER, ZJJ74, 5.2L MPI ITEM ZJ8758  
1996 MVSS VALIDATION - 301.  
TEST DATE 12/31/94 ←

FUEL AND BALLAST 21.8 GALLONS OF STODDARD SOLVENT.  
300 LBS OF LUGGAGE BALLAST INCLUDED IN THE  
BALLAST DESCRIBED BELOW  
200 POUNDS IN REAR SEAT FOOTWELL  
50 POUNDS ON RIGHT REAR WHEELWELL  
140 POUNDS IN REAR SEAT AREA

POST TEST REMARKS THERE WAS NO FUEL LEAKAGE FROM THE FUEL TANK  
DURING IMPACT, POST IMPACT, DURING THE POST TEST  
PRESSURE CHECK OR DURING THE POST TEST STATIC

THE FUEL TANK WAS CONTACTED BY THE REAR AXLE, THE  
REAR SWAY BAR AND SWAY BAR BRACKET, AND BY THE  
REAR EXHAUST SYSTEM.

REPORT CODES

A = TRANSDUCER DATA	B = ALL FILM DATA
C = HIGH SPEED FILM	D = ENGINEER'S REPORT
E = DUMMY KINEMATICS	F = STEERING COLUMN
G = UNDERBODY	H = A-POST
I = DYNAMIC CRUSH	J = ENGINE COMPARTMENT
K = DOOR CRUSH	L = FORCE/CRUSH/ENERGY
M = SPECIAL	

DISTRIBUTION

W.A. BREITMOSER, JR.	422-05-01 (AB)
D.J. MCKENZIE	422-05-01 (AB)
S.L. WILLIAMS	514-18-18 (AB)
J.B. ESTES	514-15-58 (AB)

DATE 01/01/95

TIME 15.38.01.

DC 03993

FUEL SYSTEM AND STATIC ROLLOVER SUMMARY

TEST NUMBER VC5339 ITEM NUMBER ZJ6864 TEST ENGINEER BUSS  
 V.I.N. 1J4GZ78Y6RC169162, TEST DATE 12/31/94 ROLL DATE 1/1/95  
 TEST TYPE; 30 MPH FRONT FLAT FIXED BARRIER IMPACT  
 FUEL; TYPE AND QUANTITY - .767 S.G. STODDARD SOLVENT, 21.8 GALLONS  
 TEST SPEED 30.4 MPH, TEST WEIGHT 4805 POUNDS.



POST TEST FUEL SYSTEM OBSERVATIONS Fuel Tank was contacted by the rear axle, the sway bar & sway bar bracket and the exhaust system.

POST IMPACT LEAKAGE(OZ); AT IMPACT 0  
 1ST 5 MIN. 0  
 NEXT 25 MIN. 0

POST TEST PRESSURE CHECK 26" WATER for 20 MINUTES

ELECTRIC FUEL PUMP RUN \_\_\_\_\_

STATIC ROLL LEAKAGE WITH VEHICLE LS SIDE DOWN FIRST

		FUEL LEAKAGE LOCATIONS DURING STATIC ROLL				TOTAL	
ROLL TIME							
0-90	1ST 5 MIN					0	*
2:00	POST 5 MIN					0	**
90-180	1ST 5 MIN					0	*
2:05	POST 5 MIN					0	**
180-270	1ST 5 MIN					0	*
2:06	POST 5 MIN					0	**
270-360	1ST 5 MIN					0	*
2:07	POST 5 MIN					0	**

\* OUNCES IN 5 MINUTES, \*\* OUNCES PER MINUTE

LAST FORM MODIFICATION 5/27/93 - GAB