

Jeep Grand Cherokee

Jeep Grand Cherokee, 3.0 diesel 'Limited', LHD

2011



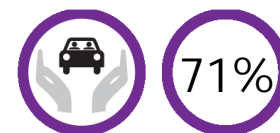
ADULT OCCUPANT



CHILD OCCUPANT



PEDESTRIAN



SAFETY ASSIST

ADULT OCCUPANT

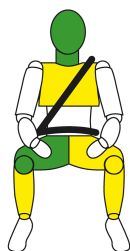
Total 29 pts | 81%

FRONTAL IMPACT

11 pts



Driver



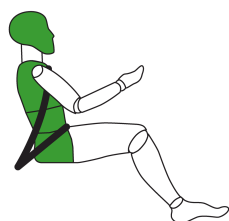
Passenger

SIDE IMPACT CAR

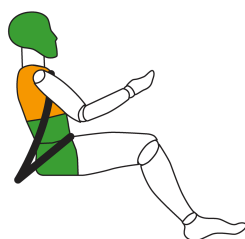
8 pts

SIDE IMPACT POLE

7,1 pts



Car



Pole

REAR IMPACT (WHIPLASH)

2,9 pts



FRONTAL IMPACT

HEAD

Driver airbag contact	unstable
Passenger airbag contact	stable

CHEST

Passenger compartment	stable
Windscreen Pillar rearward	7mm
Steering wheel rearward	none
Steering wheel upward	none
Chest contact with steering wheel	none

UPPER LEGS, KNEES AND PELVIS

Stiff structures in dashboard	steering column, trans-facia beam
Concentrated loads on knees	steering column

LOWER LEGS AND FEET

Footwell Collapse	none
Rearward pedal movement	clutch - 29mm
Upward pedal movement	clutch - 5mm

SIDE IMPACT

Head protection airbag	Yes
Chest protection airbag	Yes

WHIPLASH

Seat description	Leather, 8 way electric
Head restraint type	Active
Geometric assessment	0,5 pts

TESTS

- High severity	2,3 pts
- Medium severity	2 pts
- Low severity	2,3 pts

TEST RESULTS

CHILD OCCUPANT

Total 34 pts | 69%

18 MONTH OLD CHILD

Restraint Fair G 0/1 S ISOFIX
Group 0, 1
Facing rearward
Installation ISOFIX anchorages and support frame



PERFORMANCE 11,9 pts
INSTRUCTIONS 4 pts
INSTALLATION 2 pts

FRONTAL IMPACT

Head forward movement protected
Head acceleration good
Chest load fair

SIDE IMPACT

Head containment protected
Head acceleration good

3 YEAR OLD CHILD

Restraint Fair G 0/1 S ISOFIX
Group 0, 1
Facing forward
Installation ISOFIX anchorages and support frame



PERFORMANCE 6,9 pts
INSTRUCTIONS 4 pts
INSTALLATION 2 pts

FRONTAL IMPACT

Head forward movement rebound contact
Head acceleration good
Chest load fair

SIDE IMPACT

Head containment protected
Head acceleration good

VEHICLE BASED ASSESSMENT

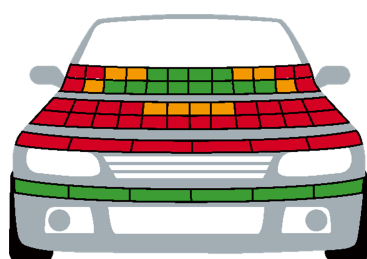
3 pts

Airbag warning Label

Pictogram label on end of facia

PEDESTRIAN

Total 16 pts | 45%



GOOD
MARGINAL
POOR

HEAD 10,1 pts
PELVIS 0 pts
LEG 6 pts

SAFETY ASSIST

Total 5 pts | 71%

SPEED LIMITATION ASSISTANCE 0 pts

Not assessed

ELECTRONIC STABILITY CONTROL (ESC) 3 pts

- ESP Pass

Yaw rate ratio (1.00s) 1,28 %

Yaw rate ratio (1.75s) 1,02 %

Lateral displacement (1.07s) 2,85 m

SEATBELT REMINDER 2 pts

- driver Pass

- passenger Pass

- rear Not assessed

DETAILS OF TESTED CAR

SPECIFICATIONS

Tested model	Jeep Grand Cherokee, 3.0 diesel 'Limited', LHD
Body type	5 door off roader
Year of publication	2011
Kerb weight	2326kg
VIN from which rating applies	applies to all Grand Cherokees of the specification tested

SAFETY EQUIPMENT

Front seatbelt pretensioners	
Front seatbelt load limiters	
Driver frontal airbag	dual stage
Front passenger frontal airbag	dual stage
Side body airbags	
Side head airbags	
Driver knee airbag	
Electronic Stability Control	
Seatbelt Reminder	driver and front passenger seat

COMMENTS

Adult occupant

In the frontal impact, the driver's inboard seat rail was found to have very nearly broken in two, and was mainly held together only by the threaded steel rod which controls fore-aft adjustment of the seat. The break occurred just at the point where the lower anchorage for the driver's seat belt attaches to the rail, and is thought to have been caused by the high tensile forces in the belt during the test. As a result, there was additional forward movement of the dummy which contributed to 'bottoming out' of the airbag i.e. there was insufficient pressure in the airbag to prevent the driver's head from making contact, through the fabric of the airbag, with the steering wheel rim. Euro NCAP has been informed that Jeep are investigating the cause of the seat rail failure and intend to improve the seat track design, but have no current plans to re-work existing vehicles. Although dummy readings were good, structures in the dashboard were thought to present a risk of injury to the knees and femurs of occupants of different sizes and to those sat in different positions. Maximum points were scored in the side barrier test but, in the more severe side pole impact, protection of the chest was rated as marginal. The Grand Cherokee has an 'active' head restraint which senses when a rear-end impact has occurred and moves the restraint forward to minimise the time to restrain head movement. Jeep showed that the system responded in a broad range of accident severities, and the whiplash tests were performed with the system active. Nevertheless, the protection provided against neck injuries in a rear-end collision was rated as marginal.

Child occupant

In the frontal impact, the 3 year dummy did not move forward excessively. However, on rebound, the dummy's head contacted the trim on the rear door pillar and the car lost all points for protection of the 3 year dummy in that test. The passenger airbag cannot be disabled so a rearward facing child restraint should not be used in that seating position. The dangers of doing so are not clearly labelled in the car.

Pedestrian

The bumper provided good protection in all areas tested and scored maximum points. However, the front edge of the bonnet was poor in all areas tested. In almost all areas likely to be struck by the head of a child, the bonnet provided poor protection. However, protection provided to an adult's head was mixed with areas of good and poor protection.

Safety assist

Electronic stability control is standard equipment on the Grand Cherokee and met Euro NCAP's test requirements. A seatbelt reminder system is standard equipment for the driver and front passenger seats. A speed limitation device is not offered on the Grand Cherokee.