Crash Tests

New Car Safety

Volvo XC60

03/2009 on 01/0001 - Frontal+Side+Head



Overall Score

Variant: LHD Momentum

36.53 out of 37 Engine: 2.4 Diesel Category: Medium SUV

Left Hand Drive

The diesel left-hand-drive European model was tested by Euro NCAP. Australasian specifications may vary and therefore models sold in Australasia might provide different levels of protection to those described on this page.

Model History and Safety Features

The tested model of Volvo XC60 was introduced in Australia in March 2009. Dual front airbags, side airbags and head-protecting side curtains are standard equipment. Antilock brakes (ABS), electronic brake distribution (EBD), emergency brake assist and electronic stability control (ESC) are also standard. Intelligent seat belt reminders are fitted to all seats. City Safe - an advanced collision avoidance system - is standard. Several other advanced safety features are available.

The front seat belt buckles are mounted on the seats and the upper anchorages are adjustable. These features improve the fit of the seat belt. Pretensioners are fitted to all seat belts to reduce slack in the event of a crash. A three point seat belt is fitted to the centre rear seat. This provides better protection than a two point (lap) seat belt.

Overall Evaluation: 5

5 Stars. The XC60 scored 15.53 out of 16 in the offset crash test. The passenger compartment held its shape extremely well. The was a slight risk of serious chest and

The vehicle scored 16 out of 16 in the side impact crash test. A further two points were earned in the optional pole test.

Frontal Offset Crash Test

Body region scores out of 4 points each: Head/neck 4 pts, chest 3.70 pts, upper legs 4 pts, lower legs 3.82 pts.

The passenger compartment held its shape extremely well in the offset crash test. The brake pedal moved rearwards by 9 mm. The throttle pedal moved upwards 9 mm. The steering wheel hub moved 29mm forward, 5mm downward and 7 mm sideways. The front ("A") pillar moved 3 mm rearwards. All doors remained closed during the crash. After the crash all doors could be opened with normal effort.
The airbag cushioned the head of the driver and contact was stable. There were no knee hazards. The passenger's head was cushioned by the airbag.

Side Impact Crash Test

Body region scores out of 4 points each: Head 4 pts, chest 4 pts, abdomen 4 pts, pelvis 4 pts.

The vehicle was eligible for an optional pole impact test, since it had head-protecting side airbags and it was within reach of a 5 star rating. The manufacturer decided to go ahead with the pole test and the vehicle earned a further two points.

Pedestrian rating (v4.2)



Child head impacts 8 Adult head impacts 3.27 Upper leg impacts Zero Lower leg impacts Total (out of 36) 17.27 Offset crash test at 64km/hr



Iniurv Measurements

| injury Measurements | | | |
|--------------------------------|---|-------------|---------------|
| Refer to the information sheet | Offset Crash Test at 64km/h | | Side Impact |
| 'How the tests are done' | (v4.2) | | Crash Test aa |
| | | | 50km/h (v4.2) |
| | Driver | Passn | Driver |
| Head | | | |
| - HIC | 367 | 258 | 39 |
| - Acceleration (g for 3ms) | 52.4 | 41.5 | 21.5 |
| Neck | | | |
| - Shear (kN) | 0.7 | 0.78 | |
| - Tension (kN) | 0.99 | 0.36 | |
| - Extension (Nm) | 21.7 | 10 | |
| Chest | | | |
| - Acceleration (g for 3ms) | | | |
| - Compression (mm) | 24.08 | 20.39 | 12.75 |
| - Viscous Criterion (m/s) | 0.1 | 0.08 | 0.03 |
| Abdomen | | | |
| - Force (kN) | | | 0.36 |
| Pelvis | | | |
| - Force (kN) | | | 0.64 |
| Upper Legs Force (kN) | | | |
| - Left | 0.06 | 2.15 | |
| - Right | 0.23 | 0.1 | |
| Knee Displacement (kN) | | | |
| - Left | 0 | 0 | |
| - Right | 0 | 0 | |
| Lower Legs Force (kN) | | | |
| - Left | 2.1 | 1.64 | |
| - Right | 1.55 | 1.6 | |
| Index (Upper Lower) | | | |
| - Left | 0.32 0.27 | 0.43 0.34 | |
| - Right | 0.44 0.23 | 0.4 0.12 | |
| | - · · · · · · · · · · · · · · · · · · · | | |

Bonus points (maximum 5)

Pole Test: 2 pts

Seat Belt Reminders: 3

Modifiers for offset test scores

No deduction Head No deduction Chest Upper leg Variable & Conc Loading No deduction Lower leg No deduction Foot score 4 pts Structure

Modifiers for side impact test scores

Head Chest Upper leg Lower leg Foot score Structure

No deduction



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