Crash Tests

New Car Safety

Volvo V70

03/2008 on 01/0001 - Frontal+Side+Head

Overall Evaluation



Overall Score **34.2 out of 37**
Variant: Kinetic
Engine: 2.4 Diesel
Category: Medium Car

Left Hand Drive
Important note: 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 V70 was introduced in Australia during 2008.
Dual front airbags, side airbags and head-protecting side curtains are standard equipment. Antilock brakes (ABS), electronic brake distribution (EBD) and electronic stability control (ESC) are also standard along with several other advanced safety features.. Intelligent seat belt reminders are fitted to both front seats.
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. The outboard rear seats have integrated two-stage booster seats for child occupants.

Overall Evaluation: 5

5 Stars. The Volvo V70 scored 15.20 out of 16 in the offset crash test. The passenger compartment held its shape well. There was a slight risk of serious chest and leg injury for the driver.
The vehicle scored 16 out of 16 in the side impact crash test and one point in the optional pole test.

Frontal Offset Crash Test

Body region scores out of 4 points each: Head/neck 4 pts, chest 3.51 pts, upper legs 4 pts, lower legs 3.69 pts.
The passenger compartment held its shape well in the offset crash test. The accelerator pedal moved rearwards by 50 mm. The brake pedal moved upwards 27 mm. The steering wheel hub moved 73mm forward, 18mm downward and 3 mm sideways. The front ("A") pillar moved 12 mm rearwards. All doors remained closed during the crash. After the crash the driver's door 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 scored four points for the head in the side impact test. The manufacturer decided to go ahead with the pole test. The side curtain did not fully deploy and the vehicle earned one point out of two.

Pedestrian rating (v4.1)



Child head impacts	7.63
Adult head impacts	2
Upper leg impacts	Zero
Lower leg impacts	6
Total (out of 36)	15.63

Offset crash test at 64km/hr



Injury Measurements

Refer to the information sheet 'How the tests are done'	Offset Crash Test at 64km/h (v4.1)		Side Impact Crash Test aa 50km/h (v4.1)
	Driver	Passn	Driver
Head			
- HIC	235	301	44
- Acceleration (g for 3ms)	36.5	44	21.6
Neck			
- Shear (kN)	0.55	0.43	
- Tension (kN)	0.68	0.31	
- Extension (Nm)	25.7	13.4	
Chest			
- Acceleration (g for 3ms)			
- Compression (mm)	25.41	19.46	13
- Viscous Criterion (m/s)	0.11	0.05	0.09
Abdomen			
- Force (kN)			0.21
Pelvis			
- Force (kN)			0.82
Upper Legs Force (kN)			
- Left	0	0	
- Right	0	0	
Knee Displacement (kN)			
- Left	0	0	
- Right	0	0	
Lower Legs Force (kN)			
- Left	1.75	2.04	
- Right	2.26	2.03	
Index (Upper | Lower)			
- Left	0.42 | 0.18	0.47 | 0.33	
- Right	0.45 | 0.22	0.46 | 0.12	

Bonus points (maximum 5)
Pole Test: 1 point
Seat Belt Reminders: 2

Modifiers for offset test scores

Head		No deduction
Chest		No deduction
Upper leg	Variable & Conc. loading	No deduction
Lower leg		No deduction
Foot score		4 points
Structure		

Modifiers for side impact test scores

Head		
Chest		No deduction
Upper leg		
Lower leg		
Foot score		
Structure	Pole test incorrect curtain deployment	1 pt deduction

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