



2020





ASSISTANCE COMPETENCE



71%

SAFETY BACKUP





SPECIFICATION

SYSTEM NAME	Pilot Assist
STANDARD ACTIVE SAFETY SYSTEMS	
AEB Car-to-Car	
AEB Vulnerable Road User	
Lane Support Systems	
Speed Assistance Systems	
ALSO AVAILABLE ON	S/V60 - S/V90 - XC40 - XC60 - XC90

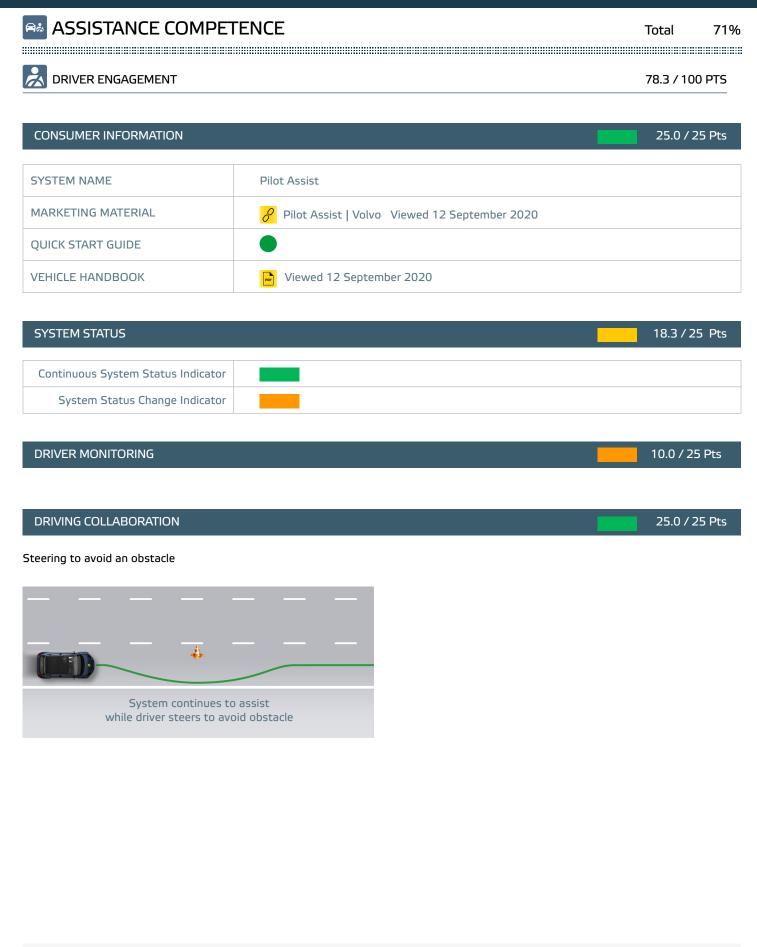
Comments

Volvo's system name **Pilot Assist** accurately portrays system functionality. The promotional material and the handbook correctly indicate the limitations of the system capabilities. Status information is clear, and the V60 offers a head-up display showing the system status in the driver's direct line of sight. Volvo did not equip the V60 with an internal camera and relies only on steering wheel input for Driver Monitoring. The system balances driver steering input with lane guidance, promoting co-operative driving.

Volvo combines map-based speed limit information with real time camera inputs to manage fixed, variable and temporary speed limit signs. The system adapt speed for upcoming curves. The V60 avoids a collision with moving vehicles in the ACC test scenarios but fails to respond to stopped cars. AEB interventions provide limited additional support in critical situations. The driver is supported through the S-Bend, staying centred in the lane at all test speeds. The vehicle has an Active Blindspot system designed to prevent lane changing into adjacent vehicles, but it fails to support at higher lateral speeds. A lane-change assist function is not available. In case of an unresponsive driver, the V60 deactivates the system leaving the vehicle without control. If the radar or camera are blocked the V60 provides a timely warning and prevents system activation.

The Volvo V60 provides a good level of Vehicle Assistance with a similar level of Driver Engagement but a Moderate Safety Backup resulting in a Moderate but balanced system.





MARGINAL

WEAK

GOOD

ADEQUATE

POOR





Total

71%



VEHICLE ASSISTANCE

71.9 / 100 PTS

SPEED ASSISTANCE

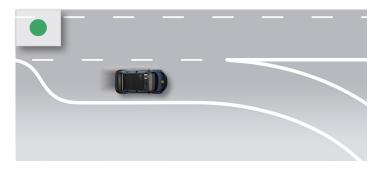
21.0 / 25 Pts

SPEED ASSIST SYSTEMS

Vehicle response to fixed Speed limits	At speed at sign
Vehicle response to variable Speed limits	Slowing down at sign

ROAD FEATURES

Speed adaptation for corners



Speed adaptation for round-abouts



Speed adaptation for junctions



FITTED TO THE VECHILE

NOT AVAILABLE



ASSISTANCE COMPETENCE

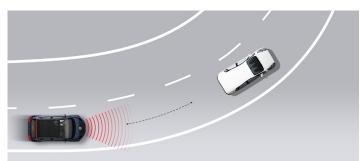
Total

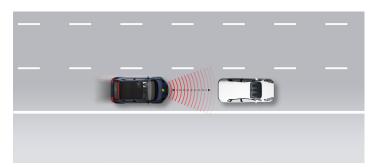
71%

ADAPTIVE CRUISE CONTROL PERFORMANCE

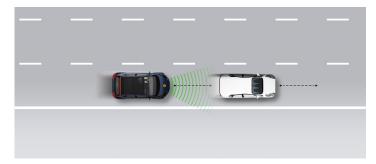
20.9 / 40 Pts

Approaching a stationary car

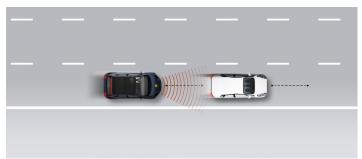




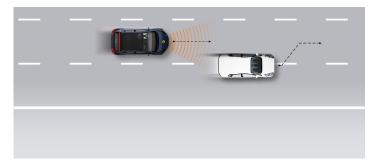
Approaching a slower moving car



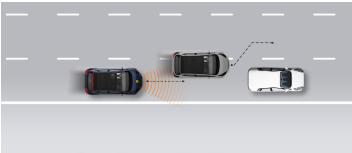
Approaching a braking car



Car cutting-in in front



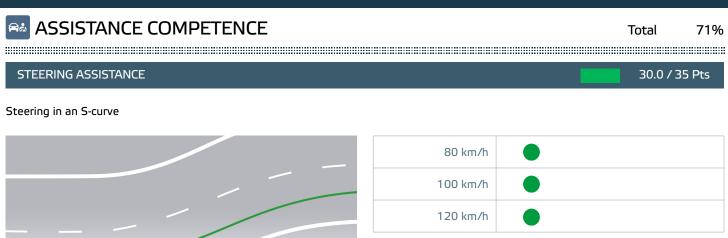
Car cutting-out in front



UNDERTAKE PREVENTION	
Undertake prevention at speeds over 90 km/h	×

ADAPTIVE CRUISE CONTROL AUTO-RESUME	
Assistance maintained after coming to a full stop	
System assistance maintained by	Automatic resume within 5s of stop and driver input required over 5s





120 km/h

Lane Change Assist



SAFETY BACKUP

Total

49%

time

SYSTEM FAILURE	20.0 / 25 Pts

	ENGAGEMENT	WARNING	
SENSOR BLOCKED AT START-UP			
Camera	System can NOT be engaged after a 5 minute drive	Visual Warning within 5 minutes after sensor blocking	
Radar	System can NOT be engaged after a 5 minute drive	Visual Warning within 5 minutes after sensor blocking	
SENSOR BLOCKED WITH VEHICLE IN MOTION, SYSTEM INACTIVE			
Camera	System can NOT be engaged after a 5 minute drive	Visual Warning within 5 minutes after sensor blocking	
Radar	System can NOT be engaged after a 5 minute drive	Visual Warning within 5 minutes after sensor blocking	
SENSOR BLOCKED WITH VEHICLE IN MOTION, SYSTEM ACTIVE			
Camera	System cancels within 2 minutes after blocking	Visual Warning within 5 minutes after sensor blocking	
Radar	System stays active after sensor blocking	Visual Warning within 5 minutes after sensor blocking	

UNRESPONSIVE DRIVER INTERVENTION 0.0 / 25 Pts Hands Off Warning Timeline

0



SAFETY BACKUP

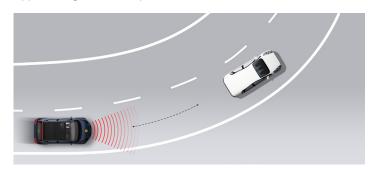
Total

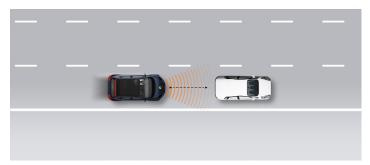
49%

COLLISION AVOIDANCE

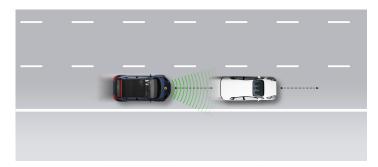
29.6 / 50 Pts

Approaching a stationary car

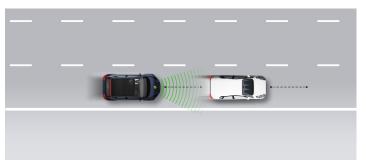




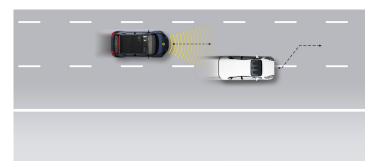
Approaching a slower moving car



Approaching a braking car



Car cutting-in in front



Car cutting-out in front

