TOYOTA VIOS (2023)



Variant G

Year Built 2023

Model Year 2023

Vehicle Category **SEDAN**

Engine Capacity 1.5 L

Kerb Mass 1035 kg

No. of Airbags 6

Test Lab PC3

TESTED VARIANT ORIGIN

MALAYSIA

FOR

FOR

MALAYSIA

OTHER ASEAN PRODUCTION (ALL VARIANTS)

THAILAND

BRUNEI, INDONESIA, LAOS, CAMBODIA

ADULT OCCUPANT PROTECTION



FRONTAL IMPACT

14.56

SIDE IMPACT

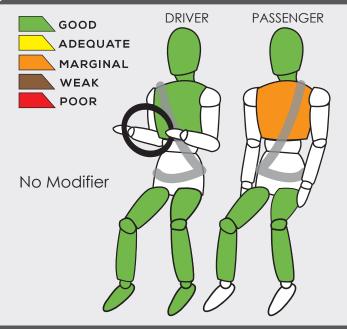
6.64

HEAD PROTECTION TECHNOLOGY 7.00

TOTAL

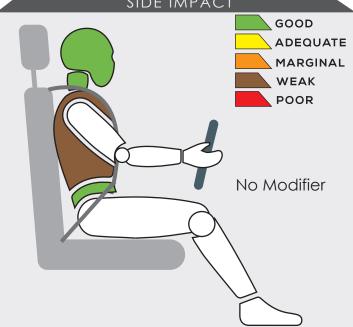
28.20

FRONTAL IMPACT



Data acquired from the test dummy showed there was marginal protection to the passenger's chest. Overall, the vehicle's frontal occupant compartment remained stable in the frontal offset test.

SIDE IMPACI



There was weak protection given to the driver's chest during the side impact test.

SAFETY ITEMS (PASSIVE)

ITEMS	REGION	ASEAN
Airbags :	Driver	Standard on all variants
	Passenger	Standard on all variants
	Side (2)	Available as standard or optional
	Curtain (2)	Available as standard or optional
	Knee	Not available
Seatbelts	Retractor Pre-tensioner & Load Limiter for Driver	Standard on all variants
	Retractor Pre-tensioner & Load Limiter for Passenger	Standard on all variants

CHILD OCCUPANT PROTECTION

DYNAMIC TEST

24.00

VEHICLE BASED

8.00

INSTALLATION

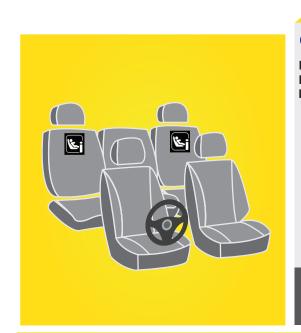
CHILD **DETECTION** 0.00

TOTAL

42.43

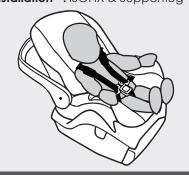
DYNAMIC TEST ASSESSMENT

10.43



18-MONTH-OLD CHILD

Restraint : Joyson Safety i-Size MIDI **Facing** : Rearward Facing **Installation**: ISOFIX & Supportleg



Frontal Impact 8.00 Side Impact 4.00 **Total Performance:** 12.00

3-YEAR-OLD CHILD

Restraint : Joyson Safety i-Size MIDI **Facing** :Rearward Facing

Installation: ISOFIX & Supportleg



Frontal Impact 8.00 Side Impact 4.00 **Total Performance:** 12.00

CRS INSTALLATION ASSESSMENT

		SEAT POSITION									
CRS	DIRECTION	FRONT	2ND ROW			3RD ROW					
		PASSENGER	LEFT	CENTRE	RIGHT	LEFT	CENTRE	RIGHT			
Peg-Perego Primo Viaggo SL	Rwd	EXEMPT	PASS	PASS	PASS	N/A	N/A	N/A			
Joie Stages	Rwd	EXEMPT	PASS	FAIL	PASS	N/A	N/A	N/A			
Joie Stages	Fwd	PASS	PASS	FAIL	PASS	N/A	N/A	N/A			
Combi Buon Junior Air	Fwd	PASS	PASS	FAIL	PASS	N/A	N/A	N/A			
Maxi Cosi Cabriofix + Family Fix	Rwd	EXEMPT	PASS	EXEMPT	PASS	N/A	N/A	N/A			
Joie Every Stage Fx	Fwd	EXEMPT	PASS	EXEMPT	PASS	N/A	N/A	N/A			
Joie Every Stage Fx	Rwd	EXEMPT	PASS	FAIL	PASS	N/A	N/A	N/A			
Maxi Cosi Titan Pro	Fwd	EXEMPT	PASS	EXEMPT	PASS	N/A	N/A	N/A			
Britax KidfFix 2 R	Fwd	PASS	PASS	FAIL	PASS	N/A	N/A	N/A			
Joyson Safety Systems i-Size MIDI*	Rwd	EXEMPT	PASS	EXEMPT	PASS	N/A	N/A	N/A			
Joyson Safety Systems i-Size MIDI*	Rwd	EXEMPT	PASS	EXEMPT	PASS	N/A	N/A	N/A			





EFFECTIVE BRAKING & AVOIDANCE 6.00

SEATBELT REMINDERS 4.50 AUTONOMOUS EMERGENCY BRAKING 3.96 ADVANCED SATs 2.42

TOTAL 16.88

ITEMS	ASEAN									
Effective Braking & Avoidance										
Anti-lock Braking System	Standard on all variants									
Electronic Stability Control	Standard on all variants									
Seatbelt Reminders										
Driver	Standard on all variants									
Front Passenger	Standard on all variants									
Rear Passengers	Standard on all variants									
Rear Seat Occupant Detection	Not available									
Autonomous Emergency Braking										
City	Available as standard or optional									
Inter-Urban	Available as standard or optional									
Pedestrian	Available as standard or optional									
Advanced Safety Assist Technologies										
Lane Departure Warning System	Available as standard or optional									
Forward Collision Warning System	Available as standard or optional									
Lane Keep Assist	Available as standard or optional									

AUTONOMOUS EMERGENCY BRAKING ASSESSMENT



ASEAN NCAP is introducing the Autonomous Emergency Braking (AEB) system functionality assessment in its new 2021-2025 protocol. In the protocol, ASEAN NCAP assessed the functionality and effectiveness of AEB City (C2C rear stationary) and AEB Inter-Urban (C2C rear moving) systems fitted inside the vehicle in performing emergency braking at several speeds against another preceeding vehicle. Both the AEB City and Inter-Urban systems are equipped either as standard or optional fitment in the Toyota Vios accross all variants. In this assessment, ASEAN NCAP confirms the technologies have functioned according to the ASEAN NCAP requirements.



BLIND SPOT DETECTION

5.33

REAR VISUALIZATION 0.00

R HEADLIGHT

1.25

PEDESTRIAN

2.00

ADVANCED MST

0.00

TOTAL

8.58

ITEMS	ASEAN								
Blind Spot Detection									
Nearside	Available as standard or optional								
Offside	Available as standard or optional								
Rear Visualization									
Advanced Rear Visualization	Not available								
Headlight									
Auto High Beam	Available as standard or optional								
Pedestrian									
Pedestrian Protection	Standard on all variants								
Advanced Motorcyclist Safety Technology									
Nil	-								

BLIND SPOT DETECTION ASSESSMENT



Starting from the 2017-2020 protocol, ASEAN NCAP had introduced assessment on the functionality of Blind Spot Technology fitted inside the assessed vehicle. ASEAN NCAP continues the assessment under the new Motorcyclist Safety pillar for the new 2021-2025 protocol. The new Toyota Vios is equipped with Blind Spot Detection (BSD) on both sides of the vehicle either as standard or optional fitment across all its variants. In this assessment, ASEAN NCAP confirms the technology has functioned according to the ASEAN NCAP requirements on both sides of the vehicle.



OVERALL RATING

The Toyota Vios is one of the first few models that ASEAN NCAP assessed in the beginning of its establishment. The Vios obtained 4-Star rating for the Adult Occupant Protection (AOP) category in the first assessment and 48% compliance for the Child Occupant Protection (COP) category. The model was then assessed for the second time in 2017 in which it achieved 5-Star under the 2017-2020 protocol. The new Vios underwent ASEAN NCAP assessment for the third time under the current 2021-2025 protocol with the sedan is equipped with standard fitment of Electronic Stability Control (ESC), Anti-lock Braking System (ABS), Seatbelt Reminder System (SBR) for frontal and rear seats occupants and Pedestrian Protection technology across all its variants. Majority of the Vios market is fitted with standard 6 airbags however, one of the markets offers 2 airbags only. Additionally, the sedan offers safety assist technologies either as standard or optional fitment namely Autonomous Emergency Braking (AEB) City, AEB Inter-Urban, AEB Pedestrian, Lane Departure Warning (LDW), Forward Collision Warning (FCW), Lane Keep Assist (LKA), Blind Spot Detection (BSD) on both sides of the vehicle and Auto High Beam (AHB). The Toyota Vios performed well in the assessment where it successfully obtained an overall score of 78.70 points. The totalled score from the four categories—AOP, COP, Safety Assist (SA) and Motorcyclist Safety (MS)—have made the Vios eligible to be awarded with 5-Star ASEAN NCAP rating.

	AC	OP		C	OP		SAFETY ASSIST			MS			2021 - 2025
TOYOTA VIOS TESTED AUGUST 2023	Item	Point	Max	Item	Point	Max	Item	Point	Max	Item	Point	Max	ASEAN NCAP RATING
	ODB	14.56	16.00	FRONTAL	16.00	16.00	EBA	6.00	6.00	BSD/BSV	5.33	8.00	
****	SIDE	6.64	8.00	SIDE	8.00	8.00	SBR	4.50	6.00	ARV	-	4.00	
	HPT Evaluation	7.00	8.00	Installation	10.43	12.00	AEB City	1.63	2.50	AHB	1.25	2.00	
N C A P www.assancep.org				Vehicle Based	8.00	13.00	AEB Inter-Urban	2.33	3.50	Ped. Protection	2.00	2.00	
				CPD	-	2.00	Advanced SATs	2.42	3.00	Advanced MST	* -	2.00	
Score		28.20	32.00		42.43	51.00		16.88	21.00		8.58	16.00	
Normalized Score		0.88			0.83			0.80			0.5364	6	
Weighting		40%			20%			20%			20%		OVERALL SCORE
Weighted Score		35.25			16.64			16.08			10.73		78.70
Maximum Star Rating		5			5			5			5		5