

NATIONAL ROADWORTHINESS SURVEY 2021

A Health Check of Australia's
Heavy Vehicle Fleet

DECEMBER
2021



KANTAR PUBLIC

EXECUTIVE SUMMARY



HEAVY VEHICLE INSPECTIONS

Overall in the NHVR Roadworthiness Survey, **8,338 vehicles and combinations** were inspected, containing a total of **13,325 units**.

The majority of vehicles were intercepted in the same jurisdiction to which they were registered.

The average age of heavy vehicles on Australian roads is **10.2 years**, with a median mileage of **almost 300,000km**.

OVERVIEW OF NON-CONFORMITIES

31% of units inspected had **at least one non-conformity**, which is a significant decrease from 48% in 2016.

The majority of non-conformities were given at most a **minor defect notice** (i.e. the continued use of the vehicle on road poses a safety risk, but the risk is not deemed as imminent or serious). The highest level of non-conformity was minor for **19% of units**, a decrease from 34% in 2016.

There has been a slight increase in the incidence of highest level of non-conformity being a **self-clearing defect** (i.e. the use of vehicle on road does not pose a safety risk, but a defect exists) from 3% to 6%.

Overall, **75% of units passed inspection** (i.e. the highest level of non-conformity was a self-clearing defect). This is an increase from 55% in 2016.

Non-conformity **did not differ greatly** between units inspected in their state of registration and those inspected interstate (31% and 30%, respectively).

AREAS OF NON-CONFORMITY

The **most common non-conformity** across metro and regional Australia is **brakes**, followed by **lights and reflectors**. **Steering & suspension, engine driveline & exhaust, and structure & body** are also in the top 5 most common areas of non-conformity.

Non-conformity has decreased across almost all areas.

NON-CONFORMITY BY VEHICLE TYPE

Non-conformity rates have also **decreased** across all **vehicle types** since 2016, particularly for **buses and coaches**.

The highest incidence of non-conformity occurs in **rigid trucks** (38%), however incidence has decreased from 2016 (52%).

00:31

Average inspection time

00:17

Median inspection time

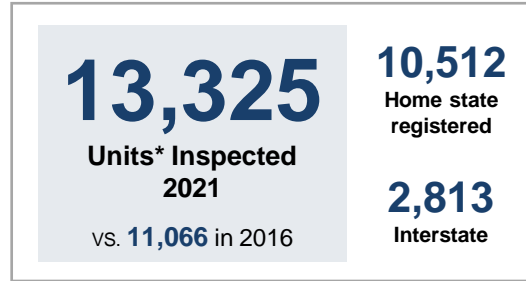
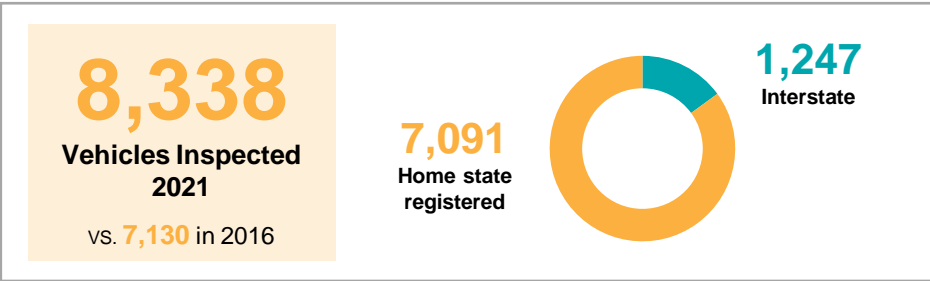
FIELDWORK DATES

5
May
2021

29
July
2021

OVERVIEW

- 31% of units inspected nationally had at least one non-conformity.
- The majority of vehicles were inspected in their state of registration.

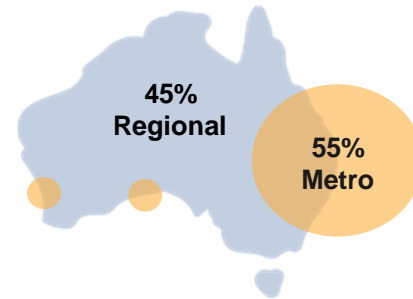
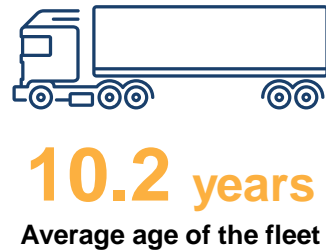
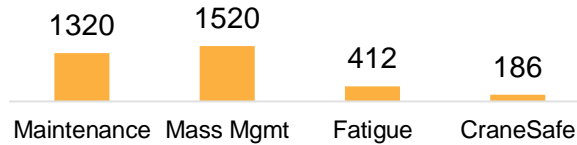
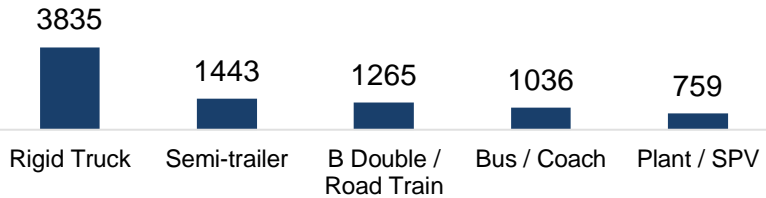


NATIONAL RATES OF NON-CONFORMITY 2021



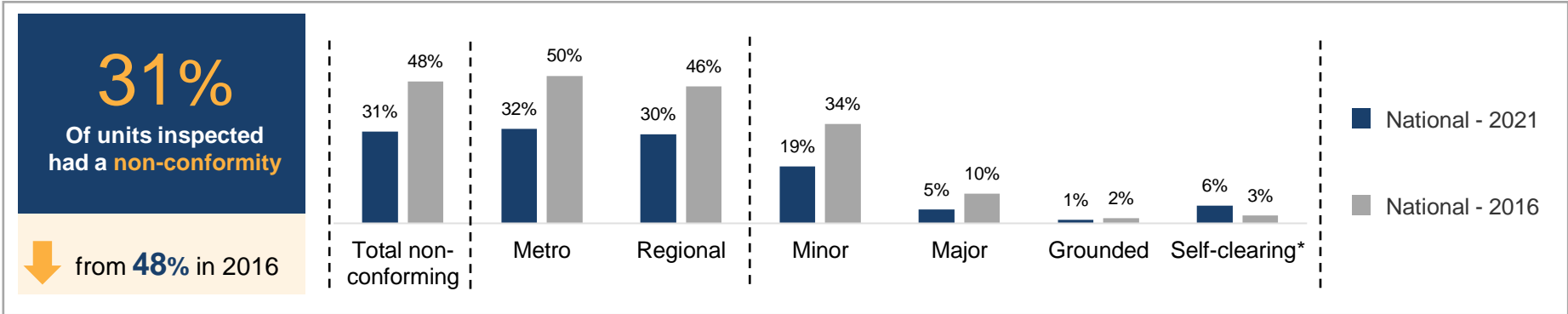
VEHICLE TYPE

SCHEME



OVERVIEW OF NON-CONFORMITIES

- The non-conformity rate has dropped notably since 2016 (from 48% to 31%)
- Non-conformity rates for vehicles inspected in their home state are slightly higher than interstate.



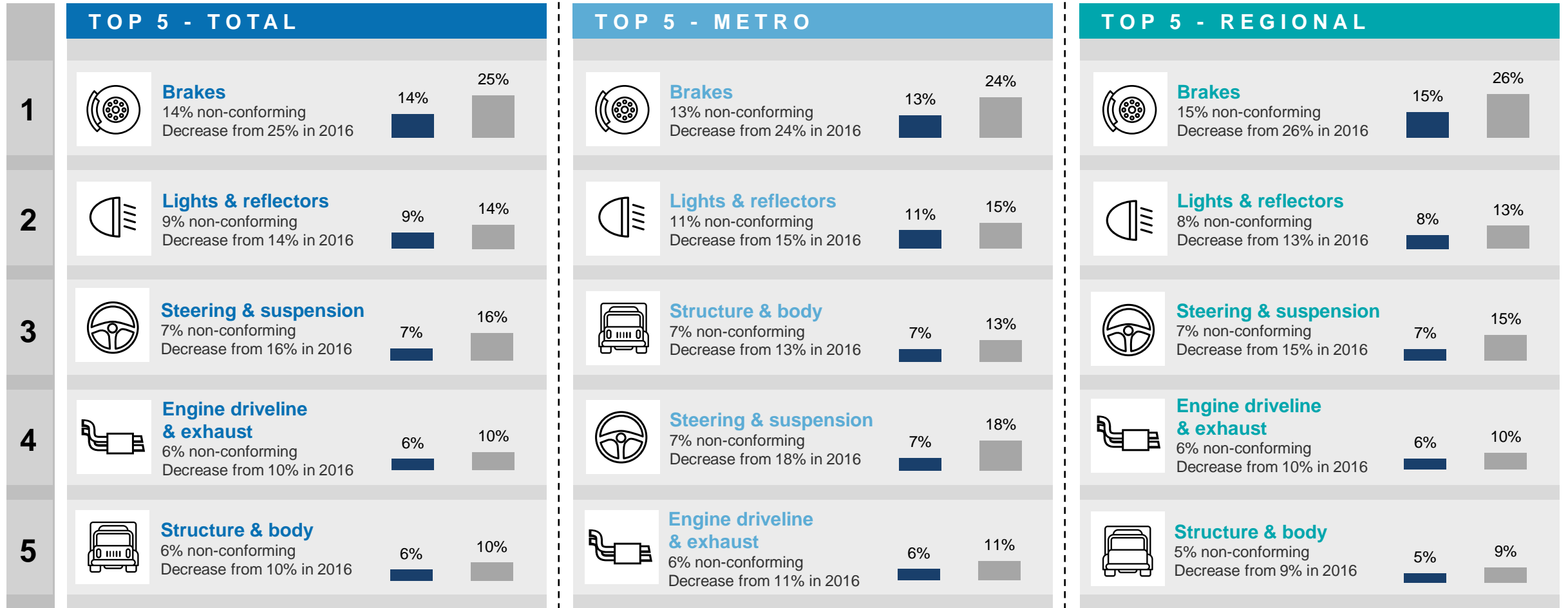
	NON-CONFORMITIES			HIGHEST LEVEL OF NON-CONFORMITY			PASS	
	Non-conforming units	Multiple non-conformities	Individual Non-conformities	Self-clearing*	Minor	Major	Grounded	Inspection passed
National - 2021	3,836	2,148	8,459	707	2414	567	148	10,196
% of units (n=13,325)	31%	18%		6%	19%	5%	1%	75%
National - 2016	4,783	2,690	10,851	363	3,298	977	146	6,646
% of units (n=11,066)	48%	29%		3%	34%	10%	2%	55%

Home state inspection	3,062	1,741	7,393	576	1,914	451	121	8,026
% of units (n=7,091)	31%	18%		6%	19%	5%	1%	75%
Interstate inspection	774	407	1,067	131	500	116	27	2,170
% of units (n=1,247)	30%	16%		5%	19%	5%	1%	75%

AREAS OF NON-CONFORMITY













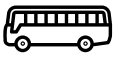

- The most common non-conformity across metro and regional Australia is *brakes*, followed by *lights and reflectors*.
- All top 5 non-conformities have improved since 2016 across both metro and regional locations.

■ National - 2021
 ■ National - 2016



AREAS OF NON-CONFORMITY SUMMARY

- Non-conformity rates have dropped across all areas since 2016 except for *Mirrors*, which has remained stable and low at <1%.

	AREAS OF NON-CONFORMITY													
	 Structure	 Seats and seatbelts	 Lights and reflectors	 Mirrors	 Windscreen & windows	 Coupling	 Trailers	 Brakes	 Steering & suspension	 Wheels and hubs	 Engine driveline & exhaust	 LPG & NG vehicles	 Buses	 Motorhome, campervan, caravan
National - 2021	667	159	933	29	365	124	68	1896	868	393	694	1	18	2
% of units (n=13,325)	6%	2%	9%	<1%	3%	1%	<1%	14%	7%	4%	6%	<1%	<1%	<1%
National – 2016	880	328	1167	29	405	261	-	2649	1496	719	855	1	-	-
% of units (n=11,066)	10%	4%	14%	<1%	5%	2%	-	25%	16%	8%	10%	<1%	-	-
Home state inspection	1,486	790	593	543	702	317	316	140	104	51	24	1	18	1
% of units (n=10,512)	14%	10%	7%	7%	7%	4%	4%	2%	1%	<1%	<1%	<1%	<1%	<1%
Interstate inspection	410	143	101	124	166	48	77	19	20	17	5	0	0	1
% of units (n=2,813)	15%	7%	4%	5%	6%	3%	3%	1%	1%	1%	<1%	<1%	<1%	<1%

NON-CONFORMITY BY VEHICLE TYPE SUMMARY

- Non-conformity rates have decreased across all vehicle types since 2016, particularly for buses and coaches.
- The highest incidence of non-conformity occurs in rigid trucks (38%), however incidence has decreased from 2016 (52%).

NON-CONFORMITY BY VEHICLE TYPE

	RIGID TRUCK			SEMI-TRAILER			B DOUBLE / ROAD TRAIN			BUS / COACH			PLANT / SPV		
	TOTAL	Metro	Regional	TOTAL	Metro	Regional	TOTAL	Metro	Regional	TOTAL	Metro	Regional	TOTAL	Metro	Regional
National - 2021	1618	913	705	923	412	511	1044	303	741	116	70	46	135	84	51
% of vehicle type	38%	40%	36%	31%	29%	33%	24%	24%	24%	8%	7%	12%	13%	13%	13%
National - 2016	1803	911	892	1170	527	643	1322	423	899	286	156	130	202	106	96
% of vehicle type	52%	55%	50%	50%	52%	49%	41%	42%	41%	30%	33%	26%	29%	29%	30%

Home state inspection	1,427	830	597	731	337	394	666	193	473	115	70	45	123	81	42
% of vehicle type	38%	39%	35%	32%	30%	34%	24%	23%	25%	9%	7%	12%	13%	13%	13%
Interstate inspection	191	83	108	192	75	117	378	110	268	1	0	1	12	3	9
% of vehicle type	40%	46%	37%	29%	26%	31%	24%	24%	23%	2%	<1%	3%	10%	9%	11%

Further information is available in the main report.
Contact natops@nhvr.gov.au to obtain a copy.



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