



SEMI-TRAILER INSPECTIONS

Overall, in the NHVR Roadworthiness Survey, 1,577 semitrailers were inspected.

The majority of semi-trailers were intercepted in the same jurisdiction to which they were registered.

The average age of semi-trailers on Australian roads is 9.5 years, with a median mileage of over 470,000 km.

OVERVIEW OF NON-CONFORMITIES

32% of semi-trailers inspected had **at least one non-conformity**, which is stable with the level of conformity seen in 2021 (31%). The incidence of non-conformity remains well below 2016 levels.

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 21% of units.

The second highest level of non-conformity was a **self-clearing defect** for 7% of semi-trailers, which is an increase from 5% in 2021. 'Self-clearing' refers to a non-conformity where the use of the vehicle on road does not pose a safety risk.

Overall, **75% of semi-trailers passed inspection** (i.e. the highest level of non-conformity was a self-clearing defect or the unit had no defect). This remains stable from 74% in 2021.

Semi-trailers inspected in the state they were registered in were compliant 67% of the time, while interstate inspections were compliant 70% of the time.

AREAS OF NON-CONFORMITY

The most common non-conformity for semi-trailers across metro and regional Australia is brakes. Lights & reflectors and structure & body are also in the top 3 most common areas of non-conformity.

Non-conformity has remained consistent across most areas, with the exception of structure & body which has increased, and steering & suspension which decreased since 2021.

NON-CONFORMITY BY JURISDICTION

Incidence of non-conformity in semi-trailers has **increased** for inspections in Victoria (VIC) and the Northern Territory (NT). Despite the increase, non-conformity remains below 2016 levels in these jurisdictions. The highest incidence of non-conformity occurs in regional Queensland (QLD) and metro VIC.

Non-conformity in semi-trailers inspected in QLD, Tasmania (TAS) and the Australian Capital Territory (ACT) has decreased since 2021.

00:33

Average inspection time

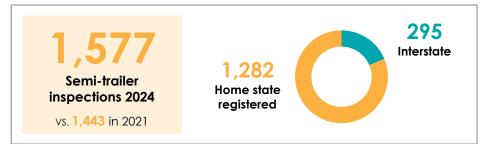
00:23
Median inspection time

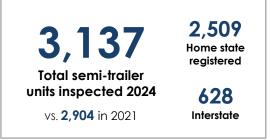


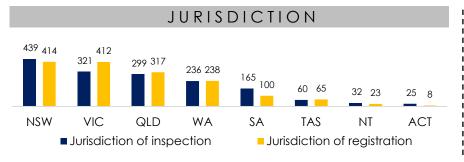


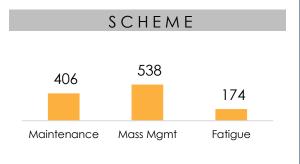
OVERVIEW — ALL SEMI-TRAILERS (POWERED AND TRAILERS)

- 32% of semi-trailers inspected nationally had at least one non-conformity.
- 81% of semi-trailers were inspected in their state of registration.









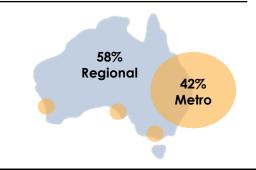
(7) 470,374 km

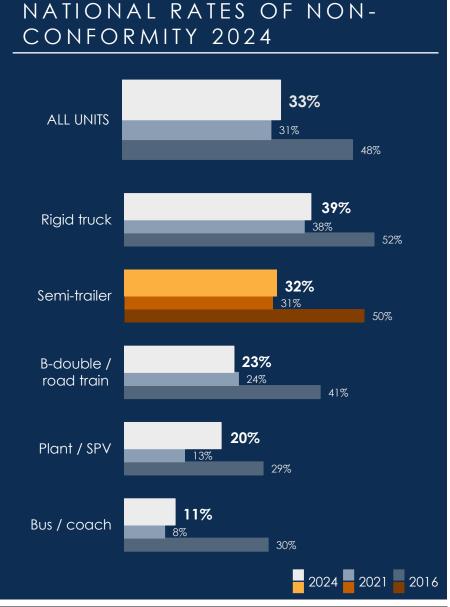
Median mileage (of powered semi-trailer units)



9.5 years

Average age of semi-trailers





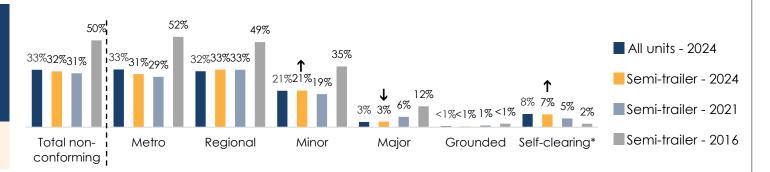


OVERVIEW OF NON-CONFORMITIES — ALL SEMI-TRAILERS (POWERED AND TRAILERS)

- The incidence of non-conformity overall in semi-trailers has remained stable since 2021, having increased by 1 percentage point (from 31% to 32%).
- Incidence of major nonconformities has decreased since 2021. While minor, self-clearing and having multiple non-conformities have all increased since 2021.

32% of semi-trailers inspected had a non-conformity

Vs. **31%** in 2021



	NON-CONFORMITIES			HIGHEST	LEVEL OF	NON-CONI	ORMITY	PASS
	Non-conforming units	Multiple non- conformities	Individual non-conformities	Self-clearing*	Minor	Major	Grounded	Unit passed^ inspection
All units - 2024	4,054	3,668	11,563	955	2,601	438	60	11,263
% of units (n=14,362)	33%	27%	 	8%	21%	3%	<1%	75%
Semi-trailer - 2024	996	949	1,574	225	659	98	14	2,366
% of units (n=3,137)	32 %	31% ↑		7 % ↑	21% ↑	3% ↓	<1%	75 %
Semi-trailer - 2021	923	515	1,228	155	576	158	34	2,136
% of units (n=2,904)	31%	17%		5%	19%	6%	1%	74 %
Semi-trailer - 2016	1,170	730	l 1,885	40	797	290	40	1,318
% of units (n=2,445)	50%	32%		2%	35%	12%	2%	51%
Home state inspection	808	739	1,219	179	534	l 85	10	1,880
% of units (n=2,509)	33%	30%		7 %	21%	4%	<1%	75 %
Interstate inspection	188	210	355	46	125	13	4	486
% of units (n=628)	30%	33%		7 %	20%	2 %	1%	77%



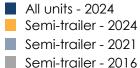
Note: Counts (n) are reported unweighted, percentages (%) are weighted.

^{*&#}x27;Self-clearing defect' was known as 'Formal warning' in 2016. For analysis purposes, the two have been combined and compared.

[^]A unit passes inspection if the highest level of non-conformity is self-clearing.

AREAS OF NON-CONFORMITY — ALL SEMI-TRAILERS (POWERED AND TRAILERS)

- The most common non-conformity among semi-trailers across metro and regional Australia is *brakes*, and this has remained stable with non-conformity in 2021.
- All of the most common areas of non-conformity for semi-trailers are below 2016 levels across metro and regional Australia.

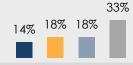


TOP 3 — TOTAL



Brakes

18% non-conforming Stable with 18% in 2021



Top 3 reasons for refusal in brakes

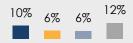
- Brake imbalance across an axle
- Incorrectly adjusted brakes
- Poor service brake performance

2



Lights & reflectors

6% non-conforming Stable with 6% in 2021



Top 3 reasons for refusal in lights and reflectors

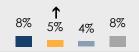
- Light not operating, damaged, loose or wrong colour
- Reflectors are damaged, obscured, deteriorated, missing or in the wrong location
- Headlight does not project white light

3



Structure & body

5% non-conforming Increase from 4% in 2021



Top 3 reasons for refusal in structure and body

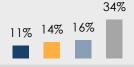
- Chassis/frame damage or rust
- Rear marking plates are faded, damaged or incorrectly fitted
- Mudguards are not properly fitted

TOP 3 — METRO



Brakes

14% non-conforming Decrease from 16% in 2021

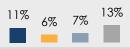


Top 3 reasons for refusal in **brakes**

- Incorrectly adjusted brakes
- Brake imbalance across an axle
- Overstroked brake components

Lights & reflectors

6% non-conforming Stable with 7% in 2021



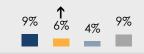
Top 3 reasons for refusal in **lights and reflectors**

- Light not operating, damaged, loose or wrong colour
- Reflectors are damaged, obscured, deteriorated, missing or in the wrong location
- Headlight lens is cracked or broken



Structure & body

6% non-conforming Increase from 4% in 2021



Top 3 reasons for refusal in **structure and body**

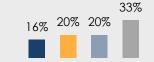
- Chassis/frame damage or rust
- Rear marking plates are faded, damaged or incorrectly fitted
- Mudguards are not properly fitted

TOP 3 — REGIONAL



Brakes

20% non-conforming Stable with 20% in 2021



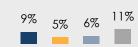
Top 3 reasons for refusal in **brakes**

- Brake imbalance across an axle
- Poor service brake performance
- Incorrectly adjusted brakes



Lights & reflectors

5% non-conforming Stable with 6% in 2021



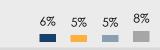
Top 3 reasons for refusal in **lights and reflectors**

- · Light not operating, damaged, loose or wrong colour
- Reflectors are damaged, obscured, deteriorated, missing or in the wrong location
- Headlight does not project white light



Engine driveline & exhaust

5% non-conforming Stable with 5% in 2021



Top 3 reasons for refusal in **engine**, **driveline** and **exhaust**

- Oil leaks
- Exhaust system leaks
- Fuel leak



AREAS OF NON-CONFORMITY SUMMARY — ALL SEMI-TRAILERS (POWERED AND TRAILERS)

• Among semi-trailers, the incidence of non-conformity has remained relatively stable in most areas of non-conformity, except for structure & body which has increased, and steering & suspension which decreased since 2021.

AREAS OF NON-CONFORMITY Wheels and hubs Engine driveline & Steering & Seats and Lights and Windscreen & Structure Mirrors Coupling **Trailers Brakes** seatbelts reflectors suspension exhaust windows All units - 2024 % of units (n=14,362)8% 4% 14% 6% 4% 2% 10% <1% 1% <1% 7% Semi-trailer - 2024 172 27 187 4 90 25 18 556 151 125 138 5% ↓ % of units (n=3,137) **5%** 1 1% 6% <1% 3% 1% 1% 18% 4% 5% Semi-trailer - 2021 111 21 178 83 22 17 541 203 89 138 % of units (n=2,904) 4% 1% 6% <1% 3% 1% 1% 18% 7% 3% 5% Semi-trailer - 2016 181 43 270 4 80 81 766 385 218 176 % of units (n=2,445) 8% 2% 12% <1% 3% 3% 33% 17% 10% 8% Home state inspection 141 25 155 64 21 445 115 97 106 % of units (n=2,509) 6% <1% 3% 1% 18% 5% 5% 1% 6% 1% 4% Interstate inspection 31 2 32 0 26 4 111 36 28 32 % of units (n=628) 5% <1% 5% 0% 4% <1% <1% 18% 5% 4% 5%



