

VEHICLE COMPONENTS AND WASTE



Waste product	Notes	Product stewardship scheme status
Tyres	5 million tyres per annum available for disposal. Product stewardship scheme expected start 2023.	Approved-pending implementation
Synthetic refrigerant gases (SRG)	Automotive air condition systems account for approximately 200 tonnes of synthetic refrigerant gases (SRG). SRGs have been declared a priority product and work is under way to implement a mandatory product stewardship scheme. A levy has been collected since 2013 to cover the emission trading scheme mitigate greenhouse gas warming impacts of vehicle air conditioning system gases.	Approved-pending implementation
Lead acid Batteries	Car batteries have a recycling value but a coordinated scheme needs to be put in place.	Various scrap merchant solutions
Li iron Batteries	Li iron EV car batteries have a recycling value but a coordinated scheme needs to be put in place. Battery Industry Group (BIG) looking to develop product stewardship scheme.	Need a product stewardship scheme
E-waste	Modern motor vehicles have a significant amount of electronic componentry as well as wiring and e-waste has been declared a priority product and work industry has been working on setting up product stewardship schemes.	Approved-pending implementation
Vehicle structure	Motor vehicles have been a focus of vehicle dismantlers for some time, extracting the valuable sub-components for recycling and then crushing the residual body for recycling.	Various scrap merchant solutions
Engine oil and oil filters	A voluntary product steward scheme has been in place since 2011 (Recycle Oil Saves the Environment -R.O.S.E). A number of service providers have exited the industry due to increasing cost of recycling.	Approved and operating but voluntary
Engine coolant fluid	There are a number of service providers who offer a voluntary collection, treatment and disposal service.	Current collection services but voluntary
Plastic bumpers	Around 200,000 plastic bumpers are replaced annually, but there is currently no official product stewardship scheme to prevent this plastic product going into local landfills. More work is needed to divert this type of waste away from landfill.	Need a product stewardship scheme
Plastic vehicle trim	There are many other plastic components within the vehicle that could have value in recycling.	Need a product stewardship scheme
Catalytic convertors	Recovery of the catalyst material (platinum, palladium etc) has a value but there is no formal product stewardship scheme managing this type of waste.	Various scrap merchant solutions
Glass	Automotive wind screens can be recycled into a range of products and there are voluntary product stewardship schemes in place.	Approved and operative but voluntary

■ Mandatory ■ Voluntary ■ Nothing in place

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NZ FLEET * STATISTICS

14.1

- average age of the light fleet

19.1

- Average age of a scrapped light vehicle

300k

- Average number of vehicles imported each year (new & used)

190k

- Average number of light vehicles scrapped each year is approximately 180,000

SCRAP VALUE

- Steel **\$100/tonne**
- Aluminium **\$150/tonne**
- Parts (varies)

VEHICLE STRUCTURE

- Steel
- Aluminium
- Exhaust system catalytic convertor

GLASS

- Windscreen/side and rear windows
- Light covers

MERCURY VAPOUR (HID) LAMPS

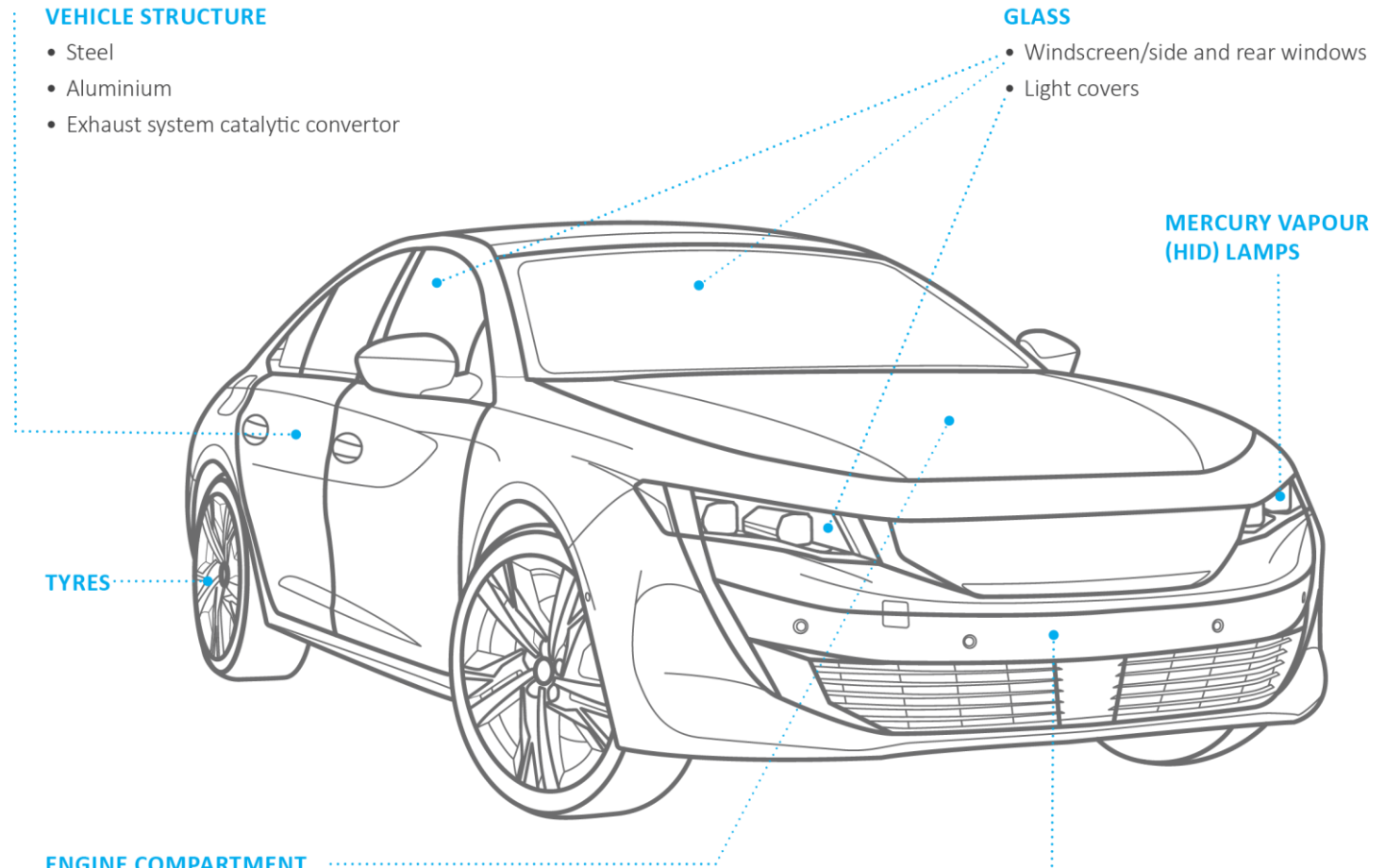
TYRES

ENGINE COMPARTMENT

- Air conditioning unit-synthetic refrigeration gas
- Engine coolant
- Oil filter
- Engine oil
- Auto-transmission oil
- Brake fluid
- Car battery (Pb/Li iron)
- Electronic components/wiring e-waste

PLASTICS

- Bumpers
- Interior/exterior trim panels



* Source: MOT 2019 fleet data.