Australian Government
Department of Infrastructure, Transport, Regional Development, Communications and the Arts

# Emissions requirements for diesel heavy duty vehicles[[1]](#endnote-1)

**October 2022**

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| Standard[[2]](#endnote-2) | Date Introduced[[3]](#endnote-3) | Emission Limits of Source Standard[[4]](#endnote-4)  (g/kWh - unless otherwise specified)  CO | Emission Limits of Source Standard[[5]](#endnote-5)  (g/kWh - unless otherwise specified)  HC | Emission Limits of Source Standard[[6]](#endnote-6)  (g/kWh - unless otherwise specified)  NO | Emission Limits of Source Standard[[7]](#endnote-7)  (g/kWh - unless otherwise specified)  PM | Source Standard / Emissions Test | Alternative Standards |
| *ADR70/00* | 1/1/95 – 1/1/96 | 4.5 | 1.1 | 8.0 | 0.36 | UN ECE Reg 49/02 13 mode ESC test (Euro I) | US EPA 91 and Japan 94 accepted as alternative standards. Superseded by ADR79/00 and ADR80/00 |
| *ADR80/00*  *ESC Limit*  *ETC Limit* | 1/1/02 – 1/1/03 | 2.1  5.45 | 0.66  0.78[[8]](#endnote-8) | 5.0  5.0 | 0.10[[9]](#endnote-9)  0.16[[10]](#endnote-10) | Directive 1999/96/EC (Euro III):  Euro Stationary Cycle (ESC);  Euro Transient Cycle (ETC) | US EPA 98 (model year 2000) accepted as alternative standard. |
| *ADR80/02[[11]](#endnote-11)*  *ESC Limit*  *ETC Limit* | 1/1/07 – 1/1/08 | 1.5  4.0 | 0.46  0.55[[12]](#endnote-12) | 3.5  3.5 | 0.02  0.03 | Directive 2005/55/EC, 2005/78/EC & 2006/51/EC (Euro IV):  Euro Stationary Cycle (ESC);  Euro Transient Cycle (ETC) | US EPA 2004 and Japan JE05 Long Term accepted as alternative standard |
| *ADR80/03*  *ESC Limit*  *ETC Limit* | 1/1/10 – 1/1/11 | 1.5  4.0 | 0.46  0.55[[13]](#endnote-13) | 2.0  2.0 | 0.02  0.03 | Directive 2005/55/EC, 2005/78/EC & 2006/51/EC (Euro V):  Euro Stationary Cycle (ESC);  Euro Transient Cycle (ETC) | US EPA 2007[[14]](#endnote-14) and Japan JE05 Long Term accepted as alternative standards. |
| *ADR 80/04*  *WHSC Limit*  *WHTC Limit* | 1/11/24-1/11/25 | 1.5 4.0 | 0.13 0.16 | 0.4 0.46 | 0.01 0.01 | UN Regulation 49/06 (Euro VI, Stage C)  Worldwide Harmonised Stationary Cycle (WHSC) and Worldwide Harmonised Transient Cycle (WHTC) | Euro VI Stage C or later, as adopted in EU Regulations 595/2009 and 582/2011  US EPA (Model Year 2013 or later); and  Japanese Post Post New Long Term (2017 or later) |

## Smoke requirements for all diesel vehicles

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| Standard | Date introduced | Source standard / emissions tests | Other comments |
| *ADR 30/00* | 1/7/76 | UN ECE Reg 24/00 | US EPA 74 and British Standard 141a:1971 accepted as alternative standards. |
| *ADR 30/01* | 1/1/02 to 1/1/03 | UN ECE Reg 24/03 | US EPA 98 accepted as alternative standards. This standard is not applicable to vehicles that comply ADR 80/03 or later. |

1. ADR80/xx also sets emission limits for LPG, NG and petrol heavy duty vehicles, but only the emission limits for diesel are listed in the table. [↑](#endnote-ref-1)
2. **To find the ADRs (except those prior to ADR80/00 which are now obsolete) follow these steps:**

   **1. Go to** [www.legislation.gov.au](http://www.legislation.gov.au)

   **2. On the left of the homepage choose "Legislative Instruments – In force".**

   **3. Under the Principal in force tab, click on "Ve" (for Vehicle).**

   **The ADRs will be listed on the screen and you can open each of them individually to get the details.** [↑](#endnote-ref-2)
3. Where a date range is specified, first date applies to vehicle models first produced on or after that date, with all new vehicles required to comply by the second date. [↑](#endnote-ref-3)
4. Emission limits for alternative standards may differ from that specified for the source (EC) standard [↑](#endnote-ref-4)
5. Emission limits for alternative standards may differ from that specified for the source (EC) standard [↑](#endnote-ref-5)
6. Emission limits for alternative standards may differ from that specified for the source (EC) standard [↑](#endnote-ref-6)
7. Emission limits for alternative standards may differ from that specified for the source (EC) standard [↑](#endnote-ref-7)
8. Non-methane hydrocarbons [↑](#endnote-ref-8)
9. Smaller engines are subject to more relaxed PM limits of 0.13 (ESC) [↑](#endnote-ref-9)
10. Smaller engines are subject to more relaxed PM limits of 0.21 (ETC). [↑](#endnote-ref-10)
11. ADR80/02 has effectively replaced ADR80/01 [↑](#endnote-ref-11)
12. Non-methane hydrocarbons [↑](#endnote-ref-12)
13. Non-methane hydrocarbons [↑](#endnote-ref-13)
14. Full NOx requirements of US2007-10 standards not mandated (refer to ADR for details) [↑](#endnote-ref-14)