



Fuel Quality Standards (Conventional Diesel) Determination 2025

I, Chris Bowen, Minister for Climate Change and Energy, make the following determination.

Dated **16/02/2025**

Chris Bowen
Minister for Climate Change and Energy

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1 Name

This instrument is the *Fuel Quality Standards (Conventional Diesel) Determination 2025*.

2 Commencement

- (1) Each provision of this instrument specified in column 1 of the table commences, or is taken to have commenced, in accordance with column 2 of the table. Any other statement in column 2 has effect according to its terms.

Commencement information		
Column 1	Column 2	Column 3
Provisions	Commencement	Date/Details
1. The whole of this instrument	The day after this instrument is registered.	

Note: This table relates only to the provisions of this instrument as originally made. It will not be amended to deal with any later amendments of this instrument.

- (2) Any information in column 3 of the table is not part of this instrument. Information may be inserted in this column, or information in it may be edited, in any published version of this instrument.

3 Authority

This instrument is made under section 21 of the *Fuel Quality Standards Act 2000*.

4 Definitions

Note: A number of expressions used in this instrument are defined in section 4 of the *Fuel Quality Standards Act 2000*, including fuel.

In this instrument:

ASTM followed by an alphanumeric code means the testing method developed under that code by the standards development organisation called ASTM International.

biodiesel has the same meaning as in the *Fuel Quality Standards (Biodiesel) Determination 2025*.

conventional diesel means all fuel supplied or represented as automotive diesel, excluding paraffinic diesel.

conventional diesel/paraffinic diesel blend means a fuel that is a blend of conventional diesel and paraffinic diesel and has a density of between 765 kg/m³ and less than 820 kg/m³ at 15°C.

Note: The density is to be determined in accordance with item 7 of the table in subsection 6(2) of this instrument.

EN followed by a numeric code means the testing method developed under that code by the European Committee for Standardization.

IP followed by a numeric code means the testing method developed under that code by the chartered professional body called the Energy Institute.

mg/kg means milligrams per kilogram, and is equivalent to ‘parts per million’ or ‘ppm’ by mass.

% m/m means per cent mass by mass, and is equivalent to ‘mass %’, ‘% mass’ and ‘weight %’.

paraffinic diesel has the same meaning as in the *Fuel Quality Standards (Paraffinic Diesel) Determination 2025*.

% v/v means per cent volume by volume, and is equivalent to ‘volume %’, ‘vol %’ and ‘% vol’.

5 Schedules

Each instrument that is specified in a Schedule to this instrument is amended or repealed as set out in the applicable items in the Schedule concerned, and any other item in a Schedule to this instrument has effect according to its terms.

6 Fuel standard for conventional diesel

- (1) In relation to a parameter mentioned in an item of the following table, conventional diesel and conventional diesel/paraffinic diesel blends must comply with the relevant specification for that parameter mentioned in that item.
- (2) For subsections (1) and (6), compliance with the specification for a parameter is determined by using the testing method for that parameter mentioned in that item of the table.

Fuel standard for conventional diesel and conventional diesel/paraffinic diesel blends			
Item	Parameter	Specification	Testing Method
1	Ash	0.01% m/m maximum	ASTM D482
2	Biodiesel	5.0% v/v maximum	EN 14078
3	Carbon residue—10% distillation residue	0.2% m/m maximum	ASTM D4530
4	Cetane index	for conventional diesel not containing biodiesel: 46 minimum	ASTM D4737 Procedure A
5	Conductivity at ambient temperature	for conventional diesel and conventional diesel/paraffinic diesel blends held by a terminal or refinery for sale or distribution: 50 pS/m minimum at ambient temperature	ASTM D2624
6	Copper corrosion—3 h at 50°C	Class 1	ASTM D130

Fuel standard for conventional diesel and conventional diesel/paraffinic diesel blends			
Item	Parameter	Specification	Testing Method
7	Density at 15°C	(a) for conventional diesel: 820–850 kg/m ³ (b) for conventional diesel/paraffinic diesel blends: between 765 and less than 820 kg/m ³	ASTM D1298
8	Derived cetane number	(a) for conventional diesel and conventional diesel/paraffinic diesel blends containing biodiesel: 51 minimum; (b) for conventional diesel/paraffinic diesel blends not containing biodiesel: 46 minimum	ASTM D6890
9	Distillation—T95	360°C maximum	ASTM D86
10	Flash point	61.5°C minimum	ASTM D93
11	Filter blocking tendency	2.0 maximum	IP 387
12	Kinematic viscosity	2.0–4.5 mm ² /s at 40°C	ASTM D445
13	Lubricity	(a) for conventional diesel: 460 µm maximum; (b) for conventional diesel/paraffinic diesel blends containing 50% or more conventional diesel: 460 µm maximum (c) for conventional diesel/paraffinic diesel blends containing less than 50% conventional diesel: 400 µm maximum	IP 450
14	Oxidation stability	2.5 mg/100 mL maximum	ASTM D2274
15	Polycyclic aromatic hydrocarbons	11% m/m maximum	IP 391
16	Sulfur	10 mg/kg maximum	ASTM D5453
17	Water and sediment	0.05% v/v maximum	ASTM D2709
18	Water	for conventional diesel and conventional diesel/paraffinic diesel blends containing biodiesel: 200 mg/kg maximum	ASTM D6304

(3) Any biodiesel component of conventional diesel must meet the requirements of section 6 of the *Fuel Quality Standards (Biodiesel) Determination 2025* prior to being blended with conventional diesel.

(4) Any biodiesel that is blended with a conventional diesel/paraffinic diesel blend must meet the requirements of section 6 of the *Fuel Quality Standards (Biodiesel) Determination 2025* prior to being blended with the conventional diesel/paraffinic diesel blend.

- (5) Any conventional diesel component of a conventional diesel/paraffinic diesel blend must meet the requirements of this instrument prior to being blended with paraffinic diesel.
- (6) Any paraffinic diesel component of a conventional diesel/paraffinic diesel blend must meet the definition of paraffinic diesel set out in the *Fuel Quality Standards (Paraffinic Diesel) Determination 2025* and the relevant specification for each parameter mentioned in an item of the following table prior to being blended with conventional diesel.

Requirements for a paraffinic diesel component of a conventional diesel/paraffinic diesel blend			
Item	Parameter	Specification	Testing Method
1	Density at 15°C	765–810 kg/m ³	ASTM D1298
2	Derived cetane number	51 minimum	ASTM D6890
3	Distillation: (a) % v/v recovered at 250°C; (b) % v/v recovered at 350°C; (c) T95	(a) for % v/v recovered at 250°C: 65% v/v maximum; (b) for % v/v recovered at 350°C: 85% v/v minimum; (c) for T95: 360°C maximum	ASTM D86

Schedule 1—Repeals

Fuel Quality Standards (Automotive Diesel) Determination 2019

1 The whole of the instrument

Repeal the instrument.