



Fuel Standard (Automotive Diesel) Determination 2001

as amended

made under section 21 of the

Fuel Quality Standards Act 2000

This compilation was prepared on 5 September 2006
taking into account amendments up to *Fuel Standard (Automotive Diesel) Amendment
Determination 2005 (No. 1)*

The text of any of those amendments not in force on that date is appended in the
Notes section

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1 Name of Determination [see Note 1]

This Determination is the *Fuel Standard (Automotive Diesel) Determination 2001*.

2 Commencement

This Determination commences on 1 January 2002.

2A Definition

In this Determination:

ASTM International means the standards development organisation of that name.

diesel means automotive diesel.

3 Fuel standard for diesel

- (1) Diesel that contains a substance mentioned in the following table must not contain more than the amount mentioned for the substance from the date mentioned for the substance.

Item	Substance	Amount	Date
1	Sulfur	500 mg/kg	31 December 2002
2	Sulfur	50 mg/kg	1 January 2006
2A	Sulfur	10 mg/kg	1 January 2009
3	Ash and suspended solids	100 mg/kg	1 January 2002
4	PAH (Polycyclic aromatic hydrocarbons)	11% mass by mass	1 January 2006

- (2) The distillation temperature at which 95% of diesel has been recovered must:
- from 1 July 2005 — not be above 370°C; and
 - from 1 January 2006 — not be above 360°C.
- (3) The cetane index of diesel must be at least 46.
- (4) The density of diesel must be at least 820 kg/m³ and not more than:
- from 1 January 2002 — 860 kg/m³; and
 - from 1 January 2006 — 850 kg/m³.
- (5) The viscosity of diesel must be at least 2.0 cSt, and not more than 4.5 cSt, at 40°C.

4 Testing methods

- (1) Compliance with the standard set out in section 3 for a substance or parameter is determined by application of the testing method for the substance or parameter in the following table:

Item	Substance or parameter	Testing method
1	Ash and suspended solids	ASTM D482
2	Sulfur	ASTM D5453
3	Cetane index	ASTM D4737 Procedure A
4	Density	ASTM D1298
5	Distillation temperature	ASTM D86
6	PAH (Polycyclic aromatic hydrocarbons)	IP 391
7	Viscosity	ASTM D445

- (2) For subsection (1), **ASTM** followed by an alphanumeric code means the testing method developed by ASTM International under that alphanumeric code.

5 Operability standards for diesel

- (1) To allow the more effective operation of engines, diesel of a kind mentioned in an item of the following table must, in relation to the parameter mentioned in that item, comply with the specification for that parameter mentioned in that item.
- (2) For subsection (1), a parameter of diesel of a kind mentioned in an item of the table complies with the specification for that item only if that is the result after the diesel has been tested, in relation to that parameter, using the ASTM International or Institute of Petroleum (**IP**) method of testing mentioned in that item.

Item	Kind of diesel	Parameter	Specification	Referee test method
1	All diesel	Carbon residue (10% distillation residue)	0.2 mass % maximum	ASTM D4530
2	All diesel	Water and sediment	0.05 vol % maximum	ASTM D2709
3	All diesel held by a terminal or refinery for sale or distribution	Conductivity at ambient temperature	50 per pS/m minimum at ambient temperature	ASTM D2624
4	All diesel	Oxidation stability	25 mg/l maximum	ASTM D2274

Item	Kind of diesel	Parameter	Specification	Referee test method
5	All diesel	Colour	2 maximum	ASTM D1500
6	All diesel	Copper corrosion (3 hours at 50°C)	Class 1 maximum	ASTM D130
7	All diesel	Flash point	61.5°C minimum	ASTM D93
8	All diesel	Filter blocking tendency	2.0 maximum	IP 387
9	All diesel containing less than 500 ppm sulfur	Lubricity	0.460 mm maximum	IP 450

Table of Instruments

Notes to the *Fuel Standard (Automotive Diesel) Determination 2001***Note 1**

The *Fuel Standard (Automotive Diesel) Determination 2001* (in force under section 21 of the *Fuel Quality Standards Act 2000*) as shown in this compilation is amended as indicated in the Tables below.

Under the *Legislative Instruments Act 2003*, which came into force on 1 January 2005, it is a requirement for all non-exempt legislative instruments to be registered on the Federal Register of Legislative Instruments.

Table of Instruments

Title	Date of notification in Gazette or FRLI registration	Date of commencement	Application, saving or transitional provisions
<i>Fuel Standard (Diesel) Determination 2001</i>	22 Aug 2001 (see <i>Gazette</i> 2001, No. GN33)	1 Jan 2002	
<i>Fuel Standard (Diesel) Amendment Determination 2001 (No. 1)</i>	3 Oct 2001 (see <i>Gazette</i> 2001, No. GN39)	1 Jan 2002	—
<i>Fuel Standard (Diesel) Amendment Determination 2002 (No. 1)</i>	24 Oct 2002 (see <i>Gazette</i> 2002, No. S396)	16 Oct 2002	—
<i>Fuel Quality Standards Amendment Determination 2004 (No. 1)</i>	11 Aug 2004 (see <i>Gazette</i> 2004, No. GN32)	11 Aug 2004	—
<i>Fuel Standard (Automotive Diesel) Amendment Determination 2005 (No. 1)</i>	15 June 2005 (see F2005L01417)	16 June 2005	—

Table of Amendments**Table of Amendments**

ad. = added or inserted am. = amended rep. = repealed rs. = repealed and substituted

Provision affected	How affected
S. 1.....	rs. 2002 No. 1
S. 2A.....	ad. 2002 No. 1 am. 2005 No. 1
S. 3.....	am. 2001 No. 1; 2004 No. 1; 2005 No. 1
S. 4.....	ad. 2001 No. 1 rs. 2005 No. 1
S. 5.....	ad. 2002 No. 1 am. 2005 No. 1