Quality data for petrol and diesel fuel in Iceland in 2010

1. Background

With reference to Directive 98/70/EC of the European Parliament and of the Council of 13 October 1998 relating to the quality of petrol and diesel, Article 8(3) and Commission decision C (2002) 508 of 18 February 2002 we hereby send the report on the quality data of petrol and autodiesel fuels used on the Icelandic market in the year 2010.

2. Details of those compiling the fuel quality monitoring report

Reporting year	2010
Country	Iceland
Date report completed	17.12.2012
Institute responsible for report	The Environment Agency of Iceland
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3. Short description of the fuel grades and the distribution of fuels in Iceland.

In Iceland the main fuel grades are 95 octane (Mogas 95/EN228) and auto diesel. Approximately 95% of all gasoline sold is Mogas 95/EN228, 5% is Mogas 98/EN228.

There are four main oil companies in Iceland; Atlantsoil, Shell, Olis and N1. In 2010 the total amount of fuel delivered to road transport was 254,6 kilotonnes and the distribution of fuel was covered from 35 depots that are spread around the country.

4. Description of fuel quality monitoring system

In Iceland, each fuel batch delivery is controlled by Fjölver surveyor and fuel inspection. The testing results of the fuel products are directly compared with the agreed product requirements and are accepted if the results are within given specifications. The data of delivered fuel batches are reported to the competent authority; The Environment Agency of Iceland.

5. Total sales of petrol and diesel

Fuel grade	National sales total (kilotonnes)
	148,2
Diesel fuel (¹) (Road transport only)	106,4
(¹) As specified in Annex II of Directive 98/70/EC.	

6. Definition of summer period for petrol volatility

Due to low ambient summer temperatures in Iceland, the summer period is from 1 June to 31 August and the maximum vapour pressure is 70 kPa.

Summer period	1 June - 31 August
(defined for petrol volatility)	

7. Quality data for petrol

The summary report for the quality monitoring data for petrol collected in year 2010 is shown below.

_		Analyt	ical and statis	stical results		Limiting value (I)			
Parameter	Unit					National specification, if any		According to 98/70/EB	
		No. of samples	Minimum	Maximum	Mean	Minimum	Maximum	Minimum	Maximum
Density	g/l	31	0,7204	0,7561	0,736				
Research octane No	_	49	95	99	95,550			95	—
Motor octane No	_	49	85	87,5	85,633			85	
Vapour pressure, DVPE	kPa	44	53,9	100	83,393	*	*	*	*
Distillation:									
— evaporated at 100 °C	%(v/v)	48	51,7	70,6	60,683			46	_
— evaporated at 150 °C	%(v/v)	48	84,6	96	90,342			75	—
Hydrocarbon analysis:									
— olefin	%(v/v)	49	0,4	18	8,255		35		18
— aromatics	%(v/v)	49	20,9	34,2	29,447		55		35
— benzene	%(v/v)	49	0,36	1	0,653				1
Oxygen content	%(m/m)	44	0,4	2,7				—	3,7
Oxygenates:									
— Methanol	%(v/v)	36	0	2,5				—	3
— Ethanol	%(v/v)	43	0	0,11				—	10
— Iso-propyl alcohol	%(v/v)	37	0	0				_	12
— Tert-butyl alcohol	%(v/v)	37	0	0				—	15
— Iso-butyl alcohol	%(v/v)	37	0	0				—	15
- Ethers with five or more carbon atoms per molecule	%(v/v)	31	2,2	14,9				_	22
- other oxygenates	%(v/v)	40	0	11,42				—	15
Sulphur content	mg/kg	49	2	24,7	8,021		10	—	10
Lead content	g/l	49	0,002	0,003	0,002			—	0,005

(1) The limiting values are 'true values' and were established according to the procedures for limit setting in EN ISO 4259:1995.

* Iceland is an outermost region with a maximum vapour pressure of 70 kPa during the summer time.

Num	Total	49					
January	7	April	4	July	5	October	3
February	2	May	4	August	5	November	4
March	3	June	6	September	4	December	2

8. Quality data for diesel fuel

The summary report for the quality monitoring data for diesel fuel in year 2010 is shown below.

Parameter	Unit	Analytical and statistical results				Limiting value (I)			
						National sp	ecifications	According to 98/70/EC	
		No. Of samples	Minimum	Maximum	Mean	Minimum	Maximum	Minimum	Maximum
Cetane No	_	61	47,9	57,6	53,320			51	—
Density at 15 °C	kg/m ³	61	820	842	834			_	845
Distillation — 95% point	°C	58	330,8	360	343,6			_	360
Polycyclic aromatic hydrocarbons	%(m/m)	60	0,014	1,8				—	8
Sulphur content	mg/kg	61	0,1	9,8	3,522		10	_	10

Num	Total	50					
January	6	April	5	5 July 6		October	3
February	5	May	2	August	3	November	3
March	3	June	6	September	5	December	3