

## Current status of Lead and Sulphur in Fuels in Central and Eastern Europe, the Caucasus and Central Asia

Country	Lead		Sulphur max allowable by law		
	Current Status	Comments	Diesel	Petrol	Comments
Albania	Unleaded	Imports of leaded petrol banned 07/2005. National legislation limit is 0.005 g/l for lead.	350	110	01/01/2011 - 31/12/2011: max 150 ppm diesel; 01/01/2012 - onwards: max 10 ppm diesel
Armenia	Unleaded	Unleaded from October 2001.	50	150	Armenia imports only
Azerbaijan	Unleaded	Has not produced leaded petrol since 1995.	1000	1000	It was announced in June 2011 by the state standardization committee that the country will move as a whole to "Euro 3" fuel quality standards In 2011, "Euro 4" by 2015.
Belarus	Unleaded	Ban since 1998.	350	500	Adopted EN 228:1993 since 09/1993. Draft state standard EN 228-2004 for unleaded gasoline requires switch to 10ppm from 2011. Technical regulation TR 2008/011/BY planned switch to 10 ppm from 2011
Bosnia and Herzegovina	Unleaded	Production of leaded fuel ended March 2010.	350	150	Over 97 percent of fuel imported from neighboring countries, including Serbia. A new draft decision on fuel quality has been developed and disseminated to various stakeholders; it

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					is expected to be adopted by end of March 2011; a target date of 2012 has been set for the production of 'Euro 5' fuel with a transitional period granted for the refinery in Brod.
Bulgaria	Unleaded	Ban since 2004.	10	10	Follows EU Fuel and Vehicle Directives
Croatia	Unleaded	Ban since 2006.	10	10	New regulation adopted May 2006 transposing 98/70/EC and 1999/32/EC. Rijeka and Sisak refinery upgrades have started, will continue to 2012 and will cost EUR 750 million. Plans 10ppm fuel introduction in 2009. Petrol and diesel fuel sulphur grades 11-50 ppm is placed on the market according to Governmental decision.
Cyprus	Unleaded	Ban since May 2004.	10	10	Follows EU Fuel and Vehicle Directives
Czech Republic	Unleaded	Ban since 2001.	10	10	Follows EU Fuel and Vehicle Directives
Estonia	Unleaded	Ban since May 2001.	10	10	Follows EU Fuel and Vehicle Directives
Georgia	Unleaded – limit set at 0.013 g/l	Ban since 2000. Introduction of new lead standard for gasoline - no more than 0.005 g/l from	350	500	Imports fuel. Introduction of new sulphur standard for petrol 200 ppm - from 2012, 150 ppm from

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		01/01/2012			2012. Introduction of new sulphur standard for diesel 300 ppm from 2012, 200 ppm from 2013.
Hungary	Unleaded	Ban since 1999.	10	10	Follows EU Fuel and Vehicle Directives
Kazakhstan	Unleaded		2,000	500	In 2008, Euro 2 fuel standard introduced but not really implemented, as the oil refineries do not presently have enough capacity and are in a bad state of repair. The Customs Union is planning to introduce Euro 3 & 4, and then (2014-2015), Euro 5 standards; in response, the oil industry has announced it will comply in order to expand production and get the necessary modernization financed.
Kyrgyzstan	Unleaded	Ban since 2002.	2,000	1,000	In 2008 'Euro 3' grade fuels were introduced by Gazprom (150 ppm for petrol, 350 ppm for diesel). The country imports fuel from Russia, Kazakhstan, Turkmenistan and Azerbaijan.
Latvia	Unleaded	Ban since 2001.	10	10	Follows EU Fuel and Vehicle Directives
Lithuania	Unleaded	Ban since 2001.	10	10	Follows EU Fuel and

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Montenegro	Unleaded	Imports from neighboring countries.	10	10	The market of fuels in Montenegro is divided between Jugopetrol-Kotor, which covers about 90% of the imported and distributed fuels, Montenegro Bonus, which participates with less than 5%, while the other 5% is divided between 40 smaller importers/distributors.
Poland	Unleaded	Ban since 2003.	10	10	Follows EU Fuel and Vehicle Directives
Moldova	Unleaded	Ban since 2002.	2,000	500	From 2007 Lukoil Moldova started to sell EN-590 Euro diesel (10ppm) and 'Euro 4' (50 ppm) grade diesel. Rompetrol Moldova sells 'Euro 4' grade fuel, while Petrom Moldova 'Euro 5' (10 ppm) grade gasoline.
Romania	Unleaded	Ban since 2004.	10	10	

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Russia	Unleaded	Ban since 2003.	350	150	Various grades on the market: Lukoil has launched Euro 4 diesel production (50 ppm) in Moscow and St. Petersburg. Petrol standards allow 'Euro 2' grade fuel through 2010, with plans for upgrades to 'Euro 3' from 2012, 'Euro 4' from 2014. 2,000 ppm diesel to be allowed through 2014. Sulphur levels of 50 mg/kg to be allowed by law until 31 Dec. 2012
Serbia	Unleaded	The content of lead in petrol produced in-country has been reduced to 0.13 mg/l	10,000	1,000	Domestic refineries produce 10,000 ppm diesel and a 350 ppm 'EKO' diesel grade, with very small quantities of 50 ppm diesel produced at Pancevo refinery. Lower sulphur diesel is imported in limited quantities. Multiple grades of diesel available on the market. A new Rulebook on fuel quality is under development, while negotiations with the refinery are underway to raise fuel quality to Euro 4 levels with a transitional period for

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Slovakia	Unleaded	Ban since 1995.	10	10	Follows EU Fuel and Vehicle Directives
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Tajikistan	Unleaded	Fully unleaded 2010	2,000	1,000	Follows GOST standards.
The former Yugoslav Republic of Macedonia	Unleaded	Leaded petrol import and production banned in July 2009	10	10	5% bio diesel allowed in diesel Д-Е III grade. OKTA Macedonia produces 'Euro 4' grade diesel and unleaded petrol.
Turkey	Unleaded	Ban since 2006. Phase-out began in 2002.	10	10	Nationwide switch to 10 ppm fuel from 1/1/2011 but distributors and retailers will still be allowed to sell the motor fuel with higher sulfur content until the end of the first quarter.
Turkmenistan	Unleaded	Ban since 2003	2,000	1,000	Follows GOST standards.
Ukraine	Unleaded	Ban since 01/01/2003.	350	150	'Euro 4' petrol planned for 2011.
Uzbekistan	Dual	Full unleaded 2010.	5,000	1,000	

\*Please note that some of this information, especially for countries in the Former Soviet Union, are based on the most readily available information on existing conditions and are thus subject to correction or change. Email [elisa.dumitrescu@unep.org](mailto:elisa.dumitrescu@unep.org) with updates.

\*\* Russian Gosudarstvennye Standarty State Standard