

## REGULATION CHANGES FOR CONSULTATION

Committee:	Executive Committee
Date of meeting:	25 <sup>th</sup> July 2012
Closing date for consultation:	14 <sup>th</sup> December 2012
Email for comments:	<a href="mailto:ExecutiveConsultation@msauk.org">ExecutiveConsultation@msauk.org</a>

### Technical Advisory Panel 18<sup>th</sup> July 2012

## Section B - Nomenclature and Definitions

### Pump Fuel

(a) Petrol: Motor Gasoline of the type on sale to the general public from UK roadside filling stations (see Appendix 1):

BS4040 (leaded) subject to possession of a valid permit for use, LRG (unleaded) in lieu of a BS or EN standard (TBA), BS EN 228 (unleaded) and BS7800 (super-unleaded).

Petrol is a product refined from crude oil that contains a large number of identifiable compounds that can typically be 250 in number. These compounds can be identified and compared to the available petrol from major oil companies and suppliers.

Unless otherwise stated or the distinction is made between leaded and unleaded petrol, the motor gasoline fuel shall meet the following: Acceptance levels for Octane Numbers will be accepted or neglected according to the Standard ASTM D.3244. Only additives to this Motor Gasoline Fuel solely for the purpose of lead replacement are allowed. Lead Replacement Gasoline (LRG, also known as LRP): Only additives to unleaded motor gasoline, solely for the purpose of lead replacement, from Sodium, Phosphorous or Manganese are allowed, subject to application according to manufacturer's instructions and to the treated fuel complying with (B) Appendix 1. Lead in excess of EU Directive 98/70 EC requirements is illegal. This also applies to 'Free Fuel'.

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## Appendix 1: Tables

### PUMP FUEL – MOTOR GASOLINE

	<b>BS EN 228 (Unleaded)</b>	<b>BS 7800 (Super Unleaded)</b>	<b>Test</b>
MON (max)	89.0	<del>89.0</del>	EN ISO 5163
MON (min)	<del>85.0</del>	<del>86.0</del>	<del>EN ISO 5163</del>
RON (max)	100.0	<del>100.0</del>	EN ISO 5164
RON (min)	<del>95.0</del>	<del>97.0</del>	<del>EN ISO 5164</del>
Lead (max) g/l	0.005	0.005	EN 237
Density 15° g/ml	0.720-0.775	0.720-0.775	EN ISO 3675/EN ISO 42185
Oxygen % (max)	<del>2.7</del> 3.7% w/w	<del>2.7</del> % w/w	Elemental
Benzene % (max)	1.0% v/v	1.0% v/v	EN 238/EN 12177/EN 14517
Sulphur (max)	10 mg/kg	10 mg/kg	EN ISO 20846/EN ISO 20884
Olefins* (max)	18% v/v	18% v/v	EN 14517/EN 15553
Aromatics* (max)	35% v/v	35% v/v	EN 14517/EN 15553
Ethanol (max)	5%	5%	EN 1601/EN 13132/EN 14517
	<b><del>BS 4040 (Leaded)</del></b>	<b>LRG (Unleaded)</b>	
MON (max)	<del>89.0</del>	89.0	EN ISO 5163
MON (min)	<del>85.0</del>	<del>86.0</del>	<del>EN ISO 5163</del>
RON (max)	<del>100.0</del>	100.0	EN ISO 5164
RON (min)	<del>95.0</del>	<del>97.0</del>	<del>EN ISO 5164</del>
Lead (max) g/l	0.15	-	ASTM D3341/IP362
Lead (max) g/l	-	0.005	ASTM D3341/IP362/EN 237
Density 15° g/ml	0.720-0.775	0.720-0.775	EN ISO 3675/EN ISO 42185
Oxygen % (max)	<del>2.7</del> % w/w	2.7% w/w	Elemental
Benzene % (max)	1.0% v/v	1.0% v/v	EN 238/EN 12177/EN 14517
Sulphur (max)	10 mg/kg	10 mg/kg	EN ISO 20846/EN ISO 20884
Olefins* (max)	18% v/v	18% v/v	EN 14517/EN 15553
Aromatics* (max)	35% v/v	35% v/v	EN 14517/EN 15553

\*Note: Olefins and Aromatics values are expressed as a percentage of total fuel.

Certain of the above values are additional to those specified in the standards referred to.

**Reason:** Removing reference to BS 4040 (leaded) fuel which is no longer produced or used in significant quantities.

**Date of Implementation:** 01.01.2014