

PART 1 : SECTION (I) – GENERAL

Government Notifications

THE NATIONAL ENVIRONMENTAL ACT, NO 47 OF 1980

REGULATION made by the Minister of Environment and Natural Resources under Section 32 of the National Environmental Act, No 47 of 1980, read with Section 23J and 23K of the Act.

RUKMAN SENANAYAKE
Minister of Environment and Natural Resources

Colombo
30th June 2003

Regulation

This regulations may be cited as the National Environmental (Air, Fuel and Vehicle Importation Standards) Regulations No 01 2003 and shall come into effect July 01, 2003

PART 1

VEHICULAR EXHAUST EMISSION STANDARDS

The permissible Vehicular Exhaust Emission limits for every motor vehicle in use in Sri Lanka, shall be set out in the First Schedule hereto.

No owner, user or a person who is in the possession of a motor vehicle shall operate or permit the operation of a motor vehicle that discharges exhaust emissions into the atmosphere in excess of the Vehicular Emission Standards set out in the First Schedule hereto.

(1) The Commissioner of Motor Traffic may for the purpose of these regulations, authorize any vehicle emission testing centre to be an accredited vehicle emission testing centre for the purpose of testing and certifying the vehicular exhaust emission levels of any motor vehicle.

(2) The Commissioner of Motor Traffic shall obtain the approval of the Central Environmental Authority prior to authorizing any vehicle testing centre as an accredited vehicle testing centre for the purpose of testing and certifying vehicular exhaust emission levels.

(3) No certificate issued under this regulation by an accredited vehicle emission testing center in respect of the vehicular exhaust emission levels for Carbon Monoxide (CO) and Hydrocarbon (HC) shall be considered valid, unless the measuring equipment used to test and certify the compliance of the Vehicular Exhaust Emission Standards for Carbon Monoxide (CO) and Hydrocarbon (HC), is in compliance with ISO/OIML Standard: Instruments for measuring vehicle exhaust emissions, ISO 3930:2000/OIML R 99: 2000 – Class One.

(4) No certificate issued under this regulation by an accredited vehicle emission testing center under this regulation in respect of the vehicular exhaust emission levels for Smoke Opacity, shall be considered valid unless the measuring equipment used to test and certify the compliance of the Vehicular Exhaust Emission Standards for Smoke opacity, is in compliance with SAE RECOMMENDED PRACTICE J 1667/or/ISO 11614.

(5) Every owner or user of a motor vehicle shall produce the annual compliance certificate of Vehicular Exhaust Emission Standards, issued by a vehicle emission testing center authorized by the Commissioner of Motor Traffic as an accredited vehicle emission testing center under paragraph (1) of this regulation, upon request by any officer authorized in that behalf by the Commissioner of Motor Traffic

PART II

FUEL STANDARDS

No person shall supply, sell or distribute fuel, for the use of any motor vehicle that is not in compliance with the permissible fuel standards as set out in the Second Schedule hereto.

PART III

VEHICULAR EXHAUST EMISSION STANDARDS FOR IMPORTATION OF VEHICLES

(1) The permitted mobile emission limits for every motor vehicle that is imported to Sri Lanka or assembled or manufactured locally, shall be as set out in the Third Schedule hereto.

(2) Every person who imports a motor vehicle shall produce for every motor vehicle so import to the Commissioner of Motor Traffic, a compliance certificate of Vehicular Exhaust Emission Standards, issued by a manufacturer or any vehicle emission testing center authorized by the Government of the exporting country.

{3} No certificate produced to the Commissioner of Motor Traffic under paragraph (2) of this regulation for the importation of a motor vehicle shall be considered valid unless the measuring equipment used to test and certify the compliance of the Vehicular Exhaust Emission standards for Carbon Monoxide (CO) and Hydrocarbon (HC), is in compliance with ISO/OIML Standard: Instruments for measuring vehicle exhaust emission, ISO 3930: 2000/OIML

R 99:2000 – Class One.

(4) No certificate produced to the Commissioner of Motor Traffic under paragraph (2) of this regulation for the importation of a motor vehicle shall be considered valid unless the measuring equipment used to test and certify the compliance of the Vehicular Exhaust Emission Standards for Smoke Opacity, is in compliance with SAE RECOMMENDED PRACTICE J 1667 or ISO 11614.

In these regulations:-

“Central Environmental Authority “ means the Central Environmental Authority established in terms of Section 2 of the National Environmental Act. No 47 of 1980:

the words “motor vehicle”, “motor cycle” “motor cars” and “motor tricycle” “ shall have the same meaning assigned to them under the Motor Traffic Act (Chapter 203).

Regulations made by the Minister of Forestry and Environment under section 32 of the National Environmental Act, No 47 of 1980 and published in Gazette Extraordinary No 1137/35 dated June 23, 2000 are hereby rescinded.

FIRST SCHEDULE

Petrol Vehicles

Type of Vehicles	Emission Standards				Remarks
	With effect from July 1, 2003		With effect from January 01, 2007		
	Carbon Monoxide CO (%v/v)	Hydrocarbon HC (ppm v/v)	Carbon Monoxide CO (%v/v)	Hydrocarbon HC(ppm v/v)	
	Petrol vehicles other than motor cycles and motor tricycles	4.5	1200	3.0	
Petrol motor cycles	6	9000	4.0	6000	Both Idling & 2500 RPM / no load
Petrol motor tricycles	6	9000	4.0	6000	Both Idling & 2500 RPM/no load

Abbreviations:

- %v/v - Percent by volume
- ppm v/v - parts per million by volume
- RPM - Revolutions per Minute

Diesel Vehicles

Type of Vehicles	Emission Standards		
	Smoke Opacity on Snap Acceleration		
	K factor (lm^{-1})		
	<i>With effect from July 01, 2003</i>	<i>With effect from January 01, 2005</i>	<i>With effect from January 01, 2007</i>
Diesel Vehicles	8.0	6.0	4.0

* k factor - Absorption Coefficient

* Snap Acceleration - has the same meaning as defined in SAE RECOMMENDED PRACTICE J 1667

SECOND SCHEDULE

Emission Related Standards For Gasoline

	Parameter	Unit	Fuel Standard		Test Method
			Low Octane Gasoline	High Octane Gasoline	
			With effect from July 1, 2003	With effect from July 1, 2003	
1	Research Octane Number (RON) (minimum)		90	95	ASTMD 2699
2	Benzene (maximum)	% v/v	4	25	ASTMD 3606
3	Lead content (maximum)	g/l	0.013	0.013	ASTMD 3341 & ASTMD 5055
4	Sulphur (S) (maximum)	ppm	1000	500	ASTMD 1266
5	Reid Vapour Pressure (max)	kPa	60 (38°C)	70	ASTMD 5191
6	Motor Octane Number (MON) (Minimum)			85	ASTMD2699
7	Evaporation at 150°C	%	70	75	
8	Total Aromatics	% v/v	45	45	UOP 273

9	Oxygen content (maximum)	%m/m	2.7	2.7	By calculation
---	--------------------------	------	-----	-----	----------------

Abbreviations:

kPa	-	kilo Pascal
% v/v	-	percent by volume
g/l	-	grams per litre
ppm	-	parts per million
% m/m	-	percent by mass
ASTM	-	American Society for Testing Materials

Emission Related Standards for Auto Diesel

	Parameter	Unit	Fuel Standard			Test Method
			With effect from July 1 st 2003	With effect from January 1 st 2004	With effect from January 01 st 2007 (Provisional)	
1	Cetane Number (Minimum)		49	49	49	IP 21 or ASTM D 613
2	Density at 15°C (Maximum)	g/l	820 – 860	820 – 860	860	ASTM D 1298
3	Distillation (T 90 – Maximum)	°C	370	370	--	ASTM D 86
4	Distillation (T 95 – Maximum)	°C	--	--	370	ASTM D 86
5	Sulphur (S) content (Maximum)	ppm	5000	3000	500	ASTM D 1266
6	Cetane Index		46	46	46	ASTM D 976

Abbreviations:

% v/v	-	percent by volume
g/l	-	grams per litre
ppm	-	parts per million
T 90	-	Temperature at which 90% of diesel evaporates
T 95	-	Temperature at which 95% of diesel evaporates
ASTM	-	American Society for Testing Materials

Emission Related Standards for Super Diesel

	Parameter	Unit	Fuel Standard	Test Method
			With effect from January 1 st , 2004	
1	Cetane Number (Minimum)		49	LP 21 or ASTM D 613
2	Density at 15°C (Maximum)	g/l	860	ASTM D 1298
3	Distillation (T 95 – Maximum)	°C	370	ASTM D 86
4	Sulphur (S) Content	Ppm	500	ASTM D 1266

	(Maximum)			
5	Cetane Index		46	ASTMD 976

Abbreviations

% v/v	-	percent by volume
g/l	-	grams per litre
ppm	-	parts per million
T 90	-	Temperature at which 90% of diesel evaporates
T 95	-	Temperature at which 95% of diesel evaporates
ASTM	-	American Society for Testing Materials

THIRD SCHEDULE

Petrol Vehicles

Type of Vehicle	Emission Standard		Remarks
	With effect from January 1 st , 2004		
	Carbon Monoxide CO (% vol)	Hydrocarbon HC(ppm v/v)	
Petrol vehicles other than motor cycles & motor tricycles	3.0	1000	Both Idling and 2500 RPM/no
Petrol motor cycles & tricycles	4.0	3000	Both Idling and 3500 RPM/no

Abbreviations

% v/v	-	percent by volume
ppm v/v	-	parts per million by volume

Diesel Vehicles

Type of Vehicle	Emission Standards	
	Smoke Opacity on Snap Acceleration K factor/m-1	
	With effect from January 1 st , 2004	
Diesel	4.0	

- * k factor – Absorption Coefficient
- * Snap Acceleration – has the same meaning as defined in SAE RECOMMENDED PRACTICE J 1667
- * SAE – Society of Automobile Engineers