



**TECHNICAL STANDARDS
& SAFETY AUTHORITY**
14TH Floor, Centre Tower
3300 Bloor Street West
Toronto, Ontario
Canada M8X 2X4

IN THE MATTER OF:

***THE TECHNICAL STANDARDS AND SAFETY
ACT, 2000, S.O. 2000, c. 16 (“the Act”)***

and

**ONTARIO REGULATION 223/01 (Codes and Standards Adopted by Reference)
made under the Act**

and

**ONTARIO REGULATION 214/01 (Compressed Natural Gas)
made under the Act**

**DIRECTOR’S ORDER OF AMENDMENT TO THE
COMPRESSED NATURAL GAS CODE ADOPTION DOCUMENT**

The Director of Ontario Regulation 214/01 (Compressed Natural Gas) pursuant to section 3 of Ontario Regulation 223/01 (Codes and Standards Adopted by Reference) hereby provides notice of the following:

The Compressed Natural Gas Code Adoption Document published by the Technical Standards & Safety Authority and dated, June 1, 2001 is amended by adding the following:

1. Section 2.26 (New)

Clause 6.10 of CSA B108-99 is amended to read

6.10 There shall be prominently displayed within 3 m (10 ft) of a point of transfer at a natural gas dispensing point a general purpose warning for:

A. NO SMOKING

B. TURN IGNITION OFF DURING VEHICLE FUELLING

C. NATURAL GAS VEHICLE FUEL CYLINDERS MUST BE PERIODICALLY INSPECTED TO ENSURE SAFE OPERATION OF THE VEHICLE. DO NOT FILL VEHICLE IF THE FUEL CYLINDERS HAVE NOT PASSED INSPECTION. FOR DETAILS SEE BROCHURE WITH ATTENDENT OR VISIT

www.tssa.org.cng-safety.

D. Letters shall be at least 7 mm high and the sign not smaller than 150 x 150 mm

- E. INTERNATIONAL SYMBOLS for NO SMOKING and IGNITION OFF at least 50 mm (2 in) in diameter, coloured in red and black on a white background may be used as an alternative for A. and B.
- F. At the refueling stations a Notice shall be made available to the vehicle operator stating the duty for owners and cylinder inspections, retesting and decommissioning the cylinders after the expiry dates. In the Notice indication of sources for more information must also be provided

Any person involved in an activity, process or procedure to which this document applies shall comply with this document.

The said amendments are effective immediately.

Dated at Toronto this 6th day of April 2005.

Roland Hadaller
Statutory Director
O.Reg. 214/01 (Compressed Natural Gas)
made under the Technical Standards & Safety Act

COMPANY NAME	MAILING ADDRESS	BUSINESS PHONE NUMBER
598796 ONTARIO LTD HI-TECH AUTO CARE	123 FALCON ST LONDON, ON N5W 4Z2	(519) 453-2601
CITY OF LONDON ATTN BARRIE GALLOWAY-FLEET MAINTENANCE	663 BATHURST ST LONDON, ON N5Z 1P8	(519) 661-2500 (519) 661-4584
MOSHER'S AUTO SERVICE INC	6505 KINGSTON RD, UNITS 4 & 5 TORONTO, ON M1C 1L5	(416) 283-1843
OGIE'S LIFT TRUCK SERVICE & REPAIRS LTD PAUL TANGUAY	948 OLD GLASS RD WALLACEBURG, ON N8A 3S8	(519) 627-5419
ROBERT CRATE O/A ENERTECH MECHANICAL	12 CAREY ST, RR 2 WATERDOWN, ON L0R 2H2	(905) 689-5544
ROBINSON AUTO-TECH SERVICES INC	165 BURTON ST, UNIT 1 HAMILTON, ON L8L 7Z6	(905) 545-9705
T & T AUTO REPAIRS	9990 TRAFALGAR RD GEORGETOWN, ON L7G 4S5	(905) 877-7443
YUGO TECH CONVERSION GAS SYSTEMS INC	SUITE 11, 1050 BRITANNIA RD E MISSISSAUGA, ON L4W 4N9	(905) 670-0860

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Natural Gas Vehicle Fuel Tanks Registered in Canada to CSA B51-91 (Appendix G) or CSA B51 Part 2

This list is for convenience and TSSA cannot guarantee its accuracy or completeness – owners must consult the documentation for each cylinder model. NGV fuel tanks installed on converted vehicles in Ontario must be registered with TSSA under **CSA B51 Part 2 High Pressure Cylinders for the On-Board Storage of Natural Gas as a Fuel for Automotive Vehicles**. There are similar requirements in other provinces. Older fuel tanks designed to meet the requirements of *CAN/CSA B339 Cylinders, Spheres, and Tubes for the Transportation of Dangerous Goods* may have a special permit number issued by the Federal government.

Manufacturer	Model	Diameter and Length in inches Approximate	Water Capacity in litres Approximate	Canadian Registration Number	Maximum Service Life and Inspection Requirements
ALUSUISSE Type 2 - aluminium liner hoop-wrapped.	S1022	13×236	395	K4783.516	20-year life with 36-month visual inspection no hydrostatic retest required.
CNG CYLINDER CORPORATION Type 2 - aluminium liner hoop-wrapped with E-glass.	0838	8×38	26	K5407.5	15 year life with 5 year hydrostatic retest
	1035	10×35	31	K5408.5	
	1042	10×42	38		
	1050	10×50	46		
	1060	10×60	58		
	1072	10×72	71	K5409.5	
	1335	13×35	53		
	1342	13×42	63		
	1350	13×50	79		
	1360	13×60	95		
	1372	13×72	119		
DYNETEK Type 3 - aluminium liner fully wrapped with carbon fibre.	Q50	13×33	50	H7618.12	15 year life with 36 month visual inspection no hydrostatic retest required
	Q54	13×36	55	H7088.123 5	
	Q68	13×43	68	H7617.1	
	Q85	13×52	85	H7620.1	
	Q120	13×73	120	H7619.12	
	Q142	13×84	142	H7623.15	
	Q200	13×114	200	H7624.15	

Manufacturer	Model	Diameter and Length in inches Approximate	Water Capacity in litres Approximate	Canadian Registration Number	Maximum Service Life and Inspection Requirements
EDO CANADA Type 4 - plastic liner fully wrapped with carbon fibre.	LR50	12×38	50	K6708.236	20 year life with 36 month visual inspection no hydrostatic retest required
	LR 80	16×33	76	Not available	15 year life with 36 month visual inspection no hydrostatic retest required
	LR 180	15½×74	177	Not available	
	LR 235	15×95	235	Not available	
FABER Type 1 - all-steel.	CAN267	10½×36	40	K4927.51	15 year life with 36 month visual inspection no hydrostatic retest required
	CAN316	12½×36	50	K4928.51	
		12½×38	55		
		12½×39	60		
CAN355	14×34	65	K4929.51		
	14×36	70			
	14×38	75			
CAN390	15½×34	80	K4930.51		
	15½×36	85			
	15½×38	90			
LINCOLN COMPOSITES Type 4 - plastic liner fully wrapped with carbon/glass hybrid fibres.	RB36A18	18½×120	388	H7826.1	15 year life with 36 month visual inspection no hydrostatic retest required
	RB36A16	16×120	286	Not available	
PRESSED STEEL TANK Type 2 - steel liner hoop-wrapped with glass fibres.	8FR38	8×38	28½	K8251.5	15 year life with 36 month visual inspection no hydrostatic retest required
	10FR37	10×37½	38	Not available	
SCM TECHNOLOGIES Type 1 - all steel.	CNG-4	9×47	41	K4300.5	15 year life with 36 month visual inspection no hydrostatic retest required

Manufacturer	Model	Diameter and Length in inches Approximate	Water Capacity in litres Approximate	Canadian Registration Number	Maximum Service Life and Inspection Requirements
STRUCTURAL COMPOSITES Type 3 - aluminium liner fully wrapped with glass fibre.	ALT576 C	11×39	35	H2050.1	15 year life with 36 month visual inspection no hydrostatic retest required
	ALT577 C	15×36	64	H2051.1	
	ALT578 C	11½×50	56	H2052.1	
	ALT584 C	15×77	144	H2053.1	

3. Frequency of Inspections

Cylinders manufactured under the CSA B51 Part 2 shall be visually inspected for external damage and deterioration at least every 36 months and at the time of reinstallation. (Clause 4.1.4.1)

Cylinders manufactured under Transport Canada specifications shall be inspected and requalified at least every 5 years, in accordance with Transportation of Dangerous Goods regulations.

Inspections shall be performed at the TSSA CNG Conversion Centres. The CNG conversion centre shall affix a label stating the date of the inspection. The label shall be affixed at the inside of the door of the glove compartment or if no glove compartment, in the driver's doorpost of the vehicle.

FAQs on CNG

Q. How I know if my cylinder has been inspected?

A. Typically cylinders mounted on vehicles are required at least a visual inspection every three years. If the vehicle operator has no records that such inspection has been performed, the vehicle shall be taken to a registered CNG Vehicle Conversion Centre for an inspection.

Q. What documentation shall be provided by the vehicle conversion Centre after the inspection of the tank is done?

A. Either a label to be placed in the inside of the glove compartment door or a document that states:

- a) the vehicle Identification No (VIN) and license plate
- b) the name of the vehicle Conversion Centre, address, telephone, e-mail
- c) the date of the inspection,
- d) The name of the person conducted the inspection and its certificate number,
- e) Cylinder CRN #

Q. Where are the registered CNG Conversion Centers?

A. You can also request the information by telephone by dialing 416 734-2700.