CNG Fuel System Approvals

PURSUANT to regulation 90B of the Traffic Regulations 1976* (as inserted by the Traffic Regulations 1976, Amendment No. 7) and pursuant to the powers delegated to me by the Secretary for Transport, I, Trevor Alan Lister, Senior Automotive Engineer, hereby approve the components listed in the Schedule hereto for inclusion in any CNG fuel system installed and operated in accordance with the requirements of New Zealand Standard NZS 5422 Part 2, 1980 (and any standard made in amendment thereto or in substitution therefor) subject to the conditions (if any) set out in respect of any component in the said Schedule.

SCHEDULE

CNG FUEL CYLINDERS

MOT Reference	Manufacturer	Drawing Number	Material	Specification	Independent Inspection Authority	Nominal Water Capacity (litres)	Working Pressure Rating (MPA)	Test Pressure (MPA)
AF C03 113	Jos Heiser Vormals	N4000–6000 267 4920	Steel	ANCC Rules	Bureau Veritas	40	16.5	29.4
AF C03 114	J. Winter's Sohn		Steel	ANCC Rules	Bureau Veritas	50	16.5	29.4
AF C03 115	Austria		Steel	ANCC Rules	Bureau Veritas	55	16.5	29.4
AF C03 116			Steel	ANCC Rules	Bureau Veritas	60	16.5	29.4
AF C03 117		N4500 267 49 20	Steel	ANCC Rules	Bureau Veritas	45	16.5	29.4

CNG cylinders are approved subject to the following conditions—

1. That they be permanently and clearly marked, either on a thickened portion of the cylinder or on a suitably attached metal plate, with characters not less than 6 mm high if space permits but in any case not less than 3 mm high, displaying the following information:
   (a) The specification to which the cylinder was manufactured.
   (b) The manufacturers name or mark, and the serial number of the cylinder.
   (c) The date of the original cylinder inspection and the identification mark of the inspection authority who made the inspection.
   (d) The date of any periodic cylinder test and the identification mark of the cylinder testing station who made each test.
   (e) The cylinder test pressure.
   (f) The charging pressure of the cylinder at 15°C.
   (g) The nominal water capacity of the cylinder.
   (h) The tare weight of the cylinder.
   (i) An identification that the cylinder is suitable for use with CNG.

2. That the cylinders be provided with valve threads of the form specified in British Standard BS 341 "Valve Fittings for Compressed Gas Cylinders".

3. That the cylinders be tested at periods not exceeding five years in accordance with the periodic test requirements laid down in the specification to which the cylinder was manufactured.

4. That the cylinder be provided with a cylinder shut off valve designed for a working pressure of 16.5 MPa and capable of withstanding the test pressure of the cylinder. Cylinder shut off valves shall be fitted with a hand wheel to facilitate ease of opening and closing of the valve and shall be fitted with a pressure relief device comprising of a burst disc backed by fusible alloy. The fusible alloy is to have a nominal yield temperature of 100° centigrade and the burst disc shall yield at a pressure of not less than 24.75 MPa and not more than the test pressure of the cylinder. Cylinder valves shall be provided with an outlet thread of ¼ in. NPT (female) and a stem thread compatible with the cylinder neck thread.

Dated at Wellington this 20th day of May 1982.

T. A. LISTER, Senior Automotive Engineer.

*S.R. 1976/227
Amendment No. 1: S.R. 1978/72
Amendment No. 2: S.R. 1978/301
Amendment No. 3: S.R. 1979/128
Amendment No. 4: S.R. 1980/31
Amendment No. 5: S.R. 1980/115
Amendment No. 6: S.R. 1981/158
Amendment No. 7: S.R. 1981/311
Amendment No. 8: S.R. 1982/93

(M.O.T. 14/1/17)

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SCHEDULE

CNG FUEL CYLINDERS

MOT Reference	Manufacturer	Drawing Number	Material	Specification	Independent Inspection Authority	Nominal Water Capacity (litres)	Working Pressure Rating (MPA)	Test Pressure (MPA)
AF C03 105	Faber, Italy	N.Z.–229–300/93	Steel	ANCC Rules	Lloyds	17	16.5	29.3
AF C03 106			Steel	ANCC Rules	Lloyds	18.5	16.5	29.3
AF C03 107			Steel	ANCC Rules	Lloyds	20	16.5	29.3
AF C03 108			Steel	ANCC Rules	Lloyds	22	16.5	29.3
AF C03 109			Steel	ANCC Rules	Lloyds	24	16.5	29.3
AF C03 110			Steel	ANCC Rules	Lloyds	25	16.5	29.3
AF C03 111			Steel	ANCC Rules	Lloyds	27	16.5	29.3
AF C03 112			Steel	ANCC Rules	Lloyds	30	16.5	29.3

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1. That they be permanently and clearly marked, either on a thickened portion of the cylinder or on a suitably attached metal plate, with characters not less than 6 mm high if space permits but in any case not less than 3 mm high, displaying the following information: