

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, Robert Norman Abram, Chief Automotive Engineer, hereby approve the components listed in Schedule I 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 thereof) subject to the conditions (if any) set out in respect of any component in Schedule I, and I hereby revoke that portion of the *Gazette* notice listed in Schedule II hereunder that refers to CNG fuel cylinders.

SCHEDULE I
CNG FUEL CYLINDERS

MOT Reference	Manufacturer	Country of Origin	Specification	Material	Inspection Authority	Test Pressure (MPa)
AF C03B 022	Simmel	Italy	Ital Regs DM 12/9/25 (ANCC Rules)	Steel	Lloyds/IGMCTC Bureau Veritas	29.4

CONDITIONS OF APPROVAL

CNG fuel cylinders are approved subject to the following conditions—

1. That they be permanently and clearly marked, on a thickened portion of the cylinder, 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 manufacturer's 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 design charging pressure of the cylinder at 15°C.
 - (g) The nominal water capacity of the cylinder.
 - (h) Where required by the marking provisions of the specification to which the cylinder was manufactured, the tare weight of the cylinder.
2. That they be clearly marked or labelled to indicate that the cylinder is suitable for use with CNG.
3. That they be provided with valve threads of the form specified in British Standard BS 341 "Valve Fittings for Compressed Gas Cylinders".
4. That they 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 handwheel to facilitate ease of opening and closing of the valve and shall be fitted with a pressure relief device, which remains in contact with the gas contained in the cylinder whether the handwheel is in the open or closed position, 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.
5. That they shall not be charged with CNG to a greater pressure than 16.5 MPa at 15° centigrade.
6. That they be tested at periods not exceeding five years in accordance with the requirements of Australian Standard AS 2337-1980 and in accordance with the periodic test requirements laid down in the specification to which the cylinder was manufactured.

SCHEDULE II

SECOND SCHEDULE
APPROVAL REVOKED

New Zealand Gazette, 1982, page 290, "CNG fuel System Approvals—Fuel Cylinder Approvals". Those cylinders identified in that portion of the Schedule entitled "CNG Fuel Cylinders" and referenced by the MOT reference number AF C03B 022.

NOTE: This approval notice indicates acceptance of two additional inspection authorities.

Dated at Wellington this 4th day of December 1984.

R. N. ABRAM, Chief 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
- Amendment No. 9, S.R. 1983/282
- Amendment No. 10, S.R. 1984/31
- Amendment No. 11, S.R. 1984/169

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