

ISO 19078:2006-10 (E)

Gas cylinders - Inspection of the cylinder installation, and requalification of high pressure cylinders for the on-board storage of natural gas as a fuel for automotive vehicles

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Background information	4
4.1	General	4
4.2	Cylinder types and descriptions	4
4.3	Required marking information	5
4.4	Additional marking	6
5	Inspection body and inspectors	6
6	Inspection equipment	6
7	Cylinder, valve and pressure relief device inspection	7
7.1	Inspection interval	7
7.2	Conditions requiring immediate inspection	7
7.3	Preparation for inspection -- all cylinder types	7
7.4	Cylinder inspection -- all cylinder types	9
7.5	Additional inspection of metal cylinders -- CNG-1 and metal areas of CNG-2, CNG-3 and the metal bosses of CNG-4	13
7.6	Additional inspection composite cylinders (CNG-2, -3 and -4)	15
7.7	Equipment inspection for valves and pressure relief devices -- all cylinder types	16
7.8	Labelling -- all cylinder types	17
7.9	Inspection record/checklist -- all cylinder types	17
7.10	Final disposition -- all cylinder types	18
7.11	Final disposition -- equipment	18
8	Installation and mounting inspection	20
8.1	Installation and mounting of NGV fuel cylinders	20
8.2	Examination of installation -- all cylinder types	20
9	Disposition of condemned cylinders	22
9.1	General	22
9.2	Condemned cylinders	23
9.3	Destruction process	23
Annex A (informative) Inspector qualifications		24
Annex B (informative) Depressurization and purging of CNG fuel cylinders		26
Annex C (informative) Conditions and usage that may warrant more frequent inspections		27

Annex D (informative) Inspection checklist example	28
Annex E (informative) Considerations for hydrostatic test and internal inspection	30
Annex F (informative) Composite matrix	32
Bibliography	33