

ISO 19078:2013-01 (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
5	Inspection body and inspectors	5
6	Inspection equipment	6
7	Cylinder, valve and pressure relief device inspection	6
7.1	Inspection interval	6
7.2	Conditions requiring immediate inspection	6
7.3	Preparation for inspection	7
7.4	Cylinder inspection	8
7.5	Additional inspection of metal cylinders -- CNG-1 and metallic areas of CNG-2, CNG-3 and the metal bosses of CNG-4	13
7.6	Additional inspection requirements for composite cylinders (CNG-2, CNG-3 and CNG-4)15	
7.7	Valve and pressure relief device inspection	16
7.8	Cylinder marking	17
7.9	Cylinder inspection record/checklist	18
7.10	Cylinder final acceptance/rejection	18
7.11	Component final acceptance/rejection	19
8	Installation and mounting inspection	20
8.1	Installation and mounting of Natural Gas Vehicle fuel cylinders	20
8.2	Cylinder installation inspection	20
9	Condemned cylinders	22
9.1	General	22
9.2	Condemned cylinders	22
9.3	Destruction process	22
Annex A (informative) Depressurization and purging of CNG fuel cylinders		24
Annex B (informative) Conditions and usage that may warrant more frequent inspections		26
Annex C (informative) Inspection checklist example		27
Annex D (informative) Considerations for hydrostatic test and internal inspection		29
Bibliography		31