

**OTHER
RECOGNIZED
DOCUMENT**

ULC/ORD-C142.14-03
(including Amendment 1)

**NONMETALLIC BULK CONTAINERS
FOR THE STORAGE AND DISPENSING OF
COMBUSTIBLE AND NON-COMBUSTIBLE LIQUIDS**

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NONMETALLIC BULK CONTAINERS FOR NEW LUBRICATING OIL	ULC/ORD-C142.14-03
AMENDMENT 1	DATE OF AMENDMENT: JULY 2004

The following amendments are being incorporated into ULC/ORD-C142.14-03.

1. Revised Title of the ORD
2. Revised Preface
3. In Chapter 1, Scope, revised Clauses 1.1, 1.2 and 1.5
4. In Chapter 2, Glossary, added definition for "Authority Having Jurisdiction", deleted the definition of "Container" and revised definition for "Dispensing Decanter"
5. In Section 3.2, Materials, revised Clauses 3.2.1 and 3.2.3
6. In Section 3.3, Openings, revised Clauses 3.3.4, 3.3.5 and 3.3.6
7. Revised Title of Section 3.5, Spill Protection, and Clauses 3.5.1, 3.5.2, 3.5.3 and 3.5.4
8. In Section 3.6, Accessories, revised Clause 3.6.2
9. In Section 3.7, Factory Testing, revised Clause 3.7.4
10. In Section 4.5, Flammability Test, revised Clause 4.5.2
11. In Section 4.15, Production Test, revised Clause 4.15.1
12. In Chapter 5, Marking, revised Sub-section 5.1(D), deleted Sub-section 5.2(A) and renumbered accordingly
13. New Figure 1 added
14. In Appendix A, revised Clause A1.3

NOTICE

Please note that this ORD includes an Amendment. The current edition of this ORD is not valid unless used together with the Amendment.

It is possible however, that certain Codes will refer to the superseded edition of this ORD (i.e., without the Amendment). In those instances, the compilation of this document allows for reference to be made to the ORD prior to the inclusion of the Amendment.

NONMETALLIC BULK CONTAINERS FOR THE STORAGE AND DISPENSING OF COMBUSTIBLE AND NON- COMBUSTIBLE LIQUIDS

PREFACE

This includes Amendment 1 to ULC/ORD-C142.14-03, Nonmetallic Bulk Containers for New Lubricating Oil, which has now been revised to Nonmetallic Bulk Containers for the Storage and Dispensing of Combustible and Non-Combustible Liquids.

Only metric SI units of measurement are used in this Document. If a value for measurement is followed by a value in other units in parentheses, the second value may be approximate. The first stated value is the requirement.

Appendix A, identified as normative, forms a mandatory part of this Document.

1. SCOPE

1.1 The following requirements provide the minimum criteria for the material properties and performance of nonmetallic containers of the *non-pressure* type, intended to bulk store and dispense combustible (such as new lubricating oil) and non-combustible liquids (such as windshield washer fluid, anti-freeze, etc).

1.2 These requirements cover single wall containers or containers with secondary containment, that dispense liquids by way of gravity or by a non-pressure type pump (hand or air-operated).

1.5 These requirements cover the construction of containers for use in stationary installations inside buildings, mainly in automotive repair and service centres and shops.

AUTHORITY HAVING JURISDICTION - The government body responsible for the enforcement of any part of this Document or the official agency designated by that body to exercise such a function.

DISPENSING DECANTER – A portable container, having a maximum capacity of 5 L, used to transport and dispense automotive liquids from the bulk container into a vehicular reservoir.

3.2 MATERIALS

3.2.3 These containers shall be provided with a liquid level indicator.

3.3 OPENINGS

3.3.4 A separate dispenser opening shall be provided. For gravity flow dispensing systems, the opening may be located either on the side close to the bottom of the container or on the bottom of the container. For dispensing systems using a non-pressure pump, the opening may be located at the top or side of the container.

3.3.5 Each dispenser opening for gravity flow dispensing systems shall have a self-closing, anti-siphon valve that remains closed when the container is not in use. The valve shall be capable of being opened manually.

3.3.6 Operating parts of a container shall be constructed to reduce the likelihood of unintentional opening of a valve for gravity flow dispensing systems.

3.5 SPILL CONTROL

3.5.1 Containers shall be provided with an under-dispenser sump having an *actual capacity* at least twice that of the *dispensing decanter* specified in Clause 3.6.2, to collect any spill for gravity flow dispensing system.

3.5.2 The under-dispenser sump shall be leak-tight for gravity flow dispensing systems.

3.5.3 All openings shall be protected with covers that protect the threads against damage and prevent entrance of foreign matter while in storage or in transit.

3.5.4 The flow of liquid shall immediately cease once the dispensing mechanism of a non-pressure pump is released.

3.6 ACCESSORIES

3.6.2 A *dispensing decanter* to transfer liquids from the container to the vehicle shall be provided with each container for gravity flow dispensing systems.

3.7 FACTORY TESTING

3.7.4 Secondary containment, where provided, shall be tested in accordance with Subsection 4.13 (Hydrostatic Test).

4.5 FLAMMABILITY TEST

4.5.2 Three 60 mm by 250 mm specimens shall be prepared for the test with the thickness of the specimens at the nominal container thickness. Each specimen shall be bent at the mid-point of the sample to an angle of 90°. Each test specimen shall be hung vertically in a supporting frame in a location free from drafts. The specimen shall be ignited at the bottom with a Bunsen burner having a 40 mm flame at the point of exposure. The temperature of the flame at a distance of 20 mm from the top of the burner shall be 740° to 750°C. The flame shall be applied to the centre of the specimen's curved edge with approximately 20 mm of flame overlapping the specimen for an exposure of 30 sec and then removed. See Figure 1 for the flammability test set-up.

4.15 PRODUCTION TEST

4.15.1 Each container shall be tested during production by the manufacturer for leakage in accordance with Clauses 4.15.2 through 4.15.5. A container opening, with all intended attachments, shall not leak or overflow when filled to *operating capacity* as defined in Clause 4.15.5.

5.1 The following information shall be incorporated on a label permanently attached to the container in a readily visible location:

D "NONMETALLIC BULK CONTAINER FOR THE STORAGE AND DISPENSING OF COMBUSTIBLE AND NON-COMBUSTIBLE LIQUIDS"

5.2 In addition, each container shall be clearly and permanently marked with the following information:

- A "WARNING: COMBUSTIBLE. KEEP ANY HEAT PRODUCING EQUIPMENT SUCH AS OPEN FLAME, OR ANY SOURCES OF IGNITION AT LEAST 1.5 M FROM THE CONTAINER";
 - B "The container must not be modified in any way";
 - C "container owner shall REGULARY visually inspect the container";
 - D "AT LEAST ONE ULC LISTED FIRE EXTINGUISHER, RATED 40-B,C OR HIGHER, IS TO BE MOUNTED NEAR THIS CONTAINER," and
 - E IF REQUIRED, USE DRY CHEMICAL, CARBON DIOXIDE OR CLEAN AGENT FIRE SUPPRESSION SYSTEMS
-

FIGURES

**FIGURE 1
FLAMMABILITY TEST SET-UP**

(Reference: Clause 4.5.2)

