

**NATIONAL
STANDARD
OF CANADA**

CAN/ULC-S523-M91
Including Amendments
1 through 2

**STANDARD FOR
LIGHT ATTACK FIRE FIGHTING APPARATUS
(MINI-PUMPER)**



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**STANDARD
FOR
LIGHT ATTACK FIRE FIGHTING APPARATUS (MINI-PUMPER)**

ICS 13.220.30, 43.160

Prepared and Published by
UNDERWRITERS' LABORATORIES OF CANADA



Approved by
STANDARDS COUNCIL OF CANADA



FIRST EDITION **NOVEMBER 1991**
Amended.....February 1994
AMENDED**SEPTEMBER 1997**

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Document ID: 123456789

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INTRODUCTION

This Standard is intended to provide an essential performance specification for small limited capability fire department pumpers normally called "mini-pumpers" or "light attack units". In many departments, the light attack apparatus has served to allow a quicker initial response and consequent arrival time on the fire scene. The response of a light attack apparatus is normally accompanied or followed by at least one piece of standard fire fighting apparatus.

The Standard provides the basic technical requirements for light attack apparatus to assist those concerned with purchasing such equipment, but it is important to note the limited capabilities of this type of apparatus.

It is not to be construed that this type of apparatus should be used in lieu of the standard pumping apparatus, but rather be considered a supplement to the standard apparatus. The following are the features of light attack apparatus which have been typically identified as differing from the requirements of CAN/ULC-S515-M88, Standard for Automobile Fire Fighting Apparatus:

- A A minimum personnel and equipment carrying capacity of 600 kg instead of 1600 kg required by CAN/ULC-S515-M88;
- B A minimum water tank capacity of 600 L instead of 1125 L required by CAN/ULC-S515-M88;
- C A pump rated at 2000 L/min or less;
- D A gross vehicle weight (G.V.W.) in the order of 5000 kg; and
- E A shorter wheelbase, typically in the order of 4 m.

It is recommended that preconstruction meetings take place between the purchaser and *manufacturer* to ensure all specifications are clearly defined.

Each bid shall be accompanied by a detailed description of the apparatus and equipment which it is proposed to furnish and to which the apparatus furnished under the contract shall conform. The purpose of these specifications is to cover the furnishing and delivering to the purchaser of a complete and soundly engineered apparatus equipped as hereinafter specified. All other unspecified details of construction and materials, where not otherwise specified, are left to the discretion of the contractor who shall be solely responsible for the design and construction of all features.

REFERENCE PUBLICATIONS

The documents shown below are referenced in the text of this Standard. Unless otherwise stated elsewhere in this Standard such reference shall be considered to indicate the edition and/or revisions of the document available at the date on which the Committee approved this ULC Standard.

Document Published by the Society of Automotive Engineers (SAE)
400 Commonwealth Drive, Warrendale, PA 15096-0001, U.S.A.
Telephone: (877) 606-7323
www.sae.org

- SAE J541, Voltage Drop for Starting Motor Circuits
- SAE J595, Flashing Warning Lamps for Authorized Emergency, Maintenance and Service Vehicles

Standards Published by Transport Canada
330 Sparks Street, Tower C, 8th floor, Ottawa, ON K1A 0N5
Telephone: (613) 990-2309
www.tc.gc.ca

- Canadian Motor Vehicle Safety Standard (CMVSS)

Document Published by Underwriters' Laboratories of Canada (ULC)
7 Underwriters Road, Toronto, ON M1R 3B4 Canada
Telephone: (416) 757-3611 or 1-866-9373-ULC
www.ulc.ca

- CAN/ULC-S515-M88, Standard for Automobile Fire Fighting Apparatus
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