JOINT CANADA-UNITED STATES
NATIONAL STANDARD

# ANSI/CAN/UL 558:2026

# STANDARD FOR SAFETY

## Industrial Trucks, Internal Combustion Engine-Powered

ANSI/UL 558-2026

## SCC FOREWORD

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UL Standard for Safety for Industrial Trucks, Internal Combustion Engine-Powered, ANSI/CAN/UL 558

Eleventh Edition, Dated May 22, 2025

***Summary of Topics***

***This revision of ANSI/CAN/UL 558 dated August 17, 2026 includes the modification of ambient temperature range during Temperature Test; 22.1.1 and 22.1.6.***

Text that has been changed in any manner or impacted by ULSE's electronic publishing system is marked with a vertical line in the margin.

The revised requirements are substantially in accordance with Proposal(s) on this subject dated April 17, 2026.

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1

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This Standard has been designated as a National Standard of Canada (NSC) on August 17, 2026.

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## CONTENTS

**Preface .....7**

**INTRODUCTION**

1 Scope .....11
2 Components .....11
3 Units of Measurement .....12
4 Referenced Publications .....12
5 Glossary .....14
6 Samples .....14

**CONSTRUCTION**

**TYPES G, D, LP, AND CN**

7 Electrical Systems .....14
8 Exhaust Systems .....16
9 Fuel Systems – Gasoline and Diesel .....16
9.1 Tanks and pumps .....16
9.2 Fuel lines, tubing, and fittings .....16
9.3 Nonmetallic parts .....17
9.4 Corrosion resistance .....18
9.5 Carburetors and backfire preventers .....18
10 Fuel Systems – LP & CN-Gas .....19
10.1 General .....19
10.2 LP-Gas .....20
10.3 CN-Gas .....21
11 Air Conditioning and Heating Systems .....22

**TYPES GS, DS, LPS, AND CNS**

12 Electrical Systems .....22
13 Exhaust Systems .....23
14 Fuel Systems – Gasoline and Diesel .....24

**TYPES G/LP, G/CN, GS/LPS, AND GS/CNS**

15 General .....24
16 Fuel System .....25
16.1 General .....25
16.2 LP and CN-Gas fuel system .....25
16.3 Fuel changeover – gasoline carburetor and LP or CN air valve .....25
16.4 Fuel changeover – gasoline fuel injection and LP or CN air valve .....26
16.5 Fuel changeover – gasoline fuel injection and electronically controlled LP or CN air valve .....26
16.6 Fuel changeover – gasoline and LP fuel injection .....26

**TYPE DY**

17 Electrical Systems .....26
18 Exhaust Systems .....27
19 Fuel Systems .....27

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20 Temperature Limitations....27
21 Temperature Cutoffs....27

**PERFORMANCE – ALL TYPES**

22 Temperature Tests....28
22.1 General....28
22.2 Fork and platform trucks....29
22.3 Load-carrying trucks....29
23 Fuel-Consumption Test....29
24 Exhaust System Test – Type G, GS, DS, LP, CN, LPS, CNS, G/LP, G/CN, GS/LPS, and GS/CNS....29
24.1 General....29
24.2 Types G, LP, and G/LP....30
24.3 Types GS, DS, LPS, GS/LPS and DY....30
25 LP-Gas Container Bracket Load Test – Types LP, LPS, G/LP, and GS/LPS....31

**AUTOMOTIVE-TYPE COMPONENTS**

**CONSTRUCTION**

26 Electrically Operated Fuel Pumps....32
27 Fill and Vent Fittings – Self-Closing Type – Types GS, DS, GS/LPS, and GS/CNS....33
28 Manual-Disconnect Switches....33
29 Changeover Switch – Dual Fuel....35

**PERFORMANCE**

30 Vibration Tests....35
30.1 Electric fuel pumps....35
30.2 Mechanical-disconnect switches....35
30.3 Fuel filters....36
30.4 Test method....36
31 Endurance Tests....36
31.1 Electric fuel pumps....36
31.2 Mechanical disconnect switches....36
31.3 Fill and vent fittings....36
32 Dielectric Voltage-Withstand Test....37
33 Explosion Tests....37
34 Hydrostatic-Strength Test....38
35 Tube-Fitting Pull Test....38
36 Marking-Plate-Adhesion Tests....40
36.1 General....40
36.2 Oven aging test....40
36.3 Immersion test....40
36.4 Standard atmosphere test....40
37 Backfire Deflector Element Test....40

**MANUFACTURING AND PRODUCTION TESTS**

38 General....41
39 Industrial Trucks, Types LP, CN, LPS, CNS, G/LP, G/CN, GS/LPS and GS/CNS....41
40 Industrial Trucks, Type DY....41

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**MARKINGS**

41 Details ..... 41

**ELECTRICAL ACCESSORIES FOR FIELD INSTALLATION BY QUALIFIED PERSONNEL**

**CONSTRUCTION**

42 General ..... 42

**MARKINGS**

43 Details ..... 43

**ANNEX A (Normative) – NONMETALLIC MATERIALS USED IN INDUSTRIAL TRUCK ENGINE COMPARTMENTS**

**GENERAL**

A1 Scope ..... 44

**FLAMMABILITY TESTS**

A2 Test Procedure ..... 44
A3 Vertical Burning Test for Classifying Materials V-0 or V-1 ..... 44
A4 Horizontal Burning Test for Classifying Materials HF-1 ..... 45
A5 20 mm Flame Test ..... 45

**ANNEX B (Normative) – INTERNAL COMBUSTION ENGINE-POWERED INDUSTRIAL/COMMERCIAL FLOOR CLEANING MACHINES**

**GENERAL**

B1 Scope ..... 46
B2 Application of Requirements ..... 46

**PERFORMANCE**

B3 Temperature Test ..... 46
B4 Operation Test For Push Type Floor Cleaners ..... 46
B5 Fuel-Consumption Test ..... 46
B6 Overfill Test ..... 46
B7 Nonmetallic Fuel Tanks ..... 47
B7.1 Internal pressure resistance test ..... 47
B7.2 Impact test ..... 47

**ANNEX C (Normative) – TEST FLUIDS**

C1 Ethanol Test Fluids ..... 48
C2 Biodiesel Test Fluids ..... 48

**ANNEX D (Informative)– SAFETY MARKING TRANSLATIONS**

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# Preface

This is the Eleventh Edition of ANSI/CAN/UL 558, Standard for Industrial Trucks, Internal Combustion Engine-Powered.

ULSE is accredited by the American National Standards Institute (ANSI) and the Standards Council of Canada (SCC) as a Standards Development Organization (SDO).

This Standard has been developed in compliance with the requirements of ANSI and SCC for accreditation of a Standards Development Organization.

This ANSI/CAN/UL 558 Standard is under continuous maintenance, whereby each revision is approved in compliance with the requirements of ANSI and SCC for accreditation of a Standards Development Organization. In the event that no revisions are issued for a period of four years from the date of publication, action to revise, reaffirm, or withdraw the standard shall be initiated.

Annexes A, B, and C are identified as Normative, as such, form mandatory parts of this Standard.

Annex D, identified as Informative, is for information purposes only.

In Canada, there are two official languages, English and French. For this reason, where this Standard requires safety markings, it must provide a French translation of such markings. Annex D provides translations in French of the English safety markings specified in this Standard, for use wherever required in Canada.

This Eleventh Edition joint American National Standard and National Standard of Canada is based on, and now supersedes, the Tenth Edition of UL 558.

Comments or proposals for revisions on any part of the Standard may be submitted at any time. Proposals should be submitted via a Proposal Request in the Collaborative Standards Development System (CSDS) at https://csds.ul.com.

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This Edition of the Standard has been formally approved by the Technical Committee (TC) on Industrial Trucks, TC 583.

This list represents the TC 583 membership when the final text in this Standard was balloted. Since that time, changes in the membership may have occurred.

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This Standard is intended to be used for conformity assessment.

The intended primary application of this Standard is stated in its scope. It is important to note that it remains the responsibility of the user of the standard to judge its suitability for this particular application.

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## INTRODUCTION

### 1 Scope

1.1 These requirements cover the fire safety aspects of industrial trucks with internal-combustion engines, such as tractors, platform-lift trucks, fork-lift trucks, and other specialized vehicles for industrial use. These requirements do not cover other possible safety aspects of such equipment.

1.2 These requirements do not cover farm or road vehicles or automotive vehicles for highway use.

1.3 The Fire Safety Standard for Powered Industrial Trucks Including Type Designations, Areas of Use, Conversions, Maintenance, and Operations, NFPA 505, identifies internal combustion engine powered industrial trucks as follows:

Types G, D, LP, CN, G/CN, and G/LP – A unit powered by gasoline (G), diesel (D), LP-gas (LP), compressed natural gas (CN), either gasoline or compressed natural gas (G/CN), or either gasoline or liquefied petroleum gas (G/LP), that has minimum acceptable safeguards against inherent fire hazards.

Types GS, DS, LPS, CNS, GS/CNS, and GS/LPS – A unit powered by gasoline (GS), diesel (DS), LP-gas (LPS), compressed natural gas (CNS), either gasoline or compressed natural gas (GS/CNS), or either gasoline or liquefied petroleum gas (GS/LPS) that, in addition to meeting all the requirements for Types G, D, LP, CN, G/CN, and G/LP, is provided with additional safeguards to the exhaust, fuel and electric systems.

Type DY – A diesel-powered unit that has all the safeguards of Type DS units and, in addition, any electric equipment is completely enclosed and equipped with temperature limitation features.

### 2 Components

2.1 Except as indicated in 2.2, a component of a product covered by this Standard shall comply with the requirements for that component.

2.2 A component of a product covered by this Standard is not required to comply with a specific requirement that:

a) Involves a feature or characteristic not required in the application of the component in the product covered by this Standard;

b) Is superseded by a requirement in this Standard; or

c) Is separately investigated when forming part of another component, provided the component is used within its established ratings and limitations.

2.3 Specific components are recognized as being incomplete in construction features or restricted in performance capabilities. Such components are intended for use only under limited conditions, such as certain temperatures not exceeding specified limits, and shall be used only under those specific conditions for which they have been recognized.

2.4 A component that is also intended to perform other functions such as overcurrent protection, ground-fault circuit-interruption, surge suppression, any other similar functions, or any combination thereof, shall comply additionally with the requirements of the applicable standard(s) that cover devices that provide those functions.

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## 3 Units of Measurement

3.1 Values stated without parentheses are the requirement. Values in parentheses are explanatory or approximate information.

## 4 Referenced Publications

4.1 Any undated reference to a code or standard appearing in the requirements of this Standard shall be interpreted as referring to the latest edition of that code or standard.

4.2 Products covered by this Standard shall comply with the referenced installation codes and standards noted in this Section as appropriate for the country where the product is to be used. When the product is intended for use in more than one country, the product shall comply with the installation codes and standards for all countries where it is intended to be used.

4.3 Throughout this Standard, the CSA standard references apply to products intended for use in Canada, while the UL standard references apply to products intended for use in the United States. Combined references are separated by a slash (" / ") to denote the difference between the applicable requirements specified for use in Canada and the United States.

4.4 The following publications are referenced in this Standard:

ASME B1.20.1, *Pipe Threads, General Purpose (Inch)*

ASTM D86, *Standard Test Method for Distillation of Petroleum Products and Liquid Fuels at Atmospheric Pressure*

ASTM D471, *Standard Test Method for Rubber Property – Effect of Liquids*

ASTM D664, *Standard Test Method for Acid Number of Petroleum Products by Potentiometric Titration*

ASTM D6751, *Standard Specification for Biodiesel Fuel Blendstock (B100) for Middle Distillate Fuels*

ASTM E11, *Standard Specification for Woven Wire Test Sieve Cloth and Test Sieves*

CFR 40 – Part 1039, *Control of Emissions from New and In-Use Nonroad Compression-Ignition Engines*

CSA 8.1, *Elastomeric Composite Hose and Hose Couplings for Conducting Propane and Natural Gas*

CSA 8.3, *Thermoplastic Hose and Hose Couplings for Conducting Propane and Natural Gas*

CSA C22.2 No. 0.17, *Evaluation of Properties of Polymeric Materials*

CSA C22.2 No. 5, *Molded-Case Circuit Breakers, Molded-Case Switches, and Circuit-Breaker Enclosures*

CSA C22.2 No. 49, *Flexible Cords and Cables*

CSA C22.2 No. 75, *Thermoplastic-Insulated Wires and Cables*

CSA C22.2 No. 96, *Portable Power Cables*

CSA C22.2 No. 117, *Room Air Conditioners*

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CSA C22.2 No. 210, *Appliance Wiring Material Products*

CSA C22.2 No. 235, *Supplementary Protectors*

CSA/ANSI NGV 2, *Compressed Natural Gas Vehicle Fuel Containers*

CSA/ANSI NGV 3.1, *Fuel System Components for Compressed Natural Gas Powered Vehicles*

CSA/ANSI NGV 4.2, *Hose and Hose Assemblies for Compressed Natural Gas (CNG) Dispensing Systems for Natural Gas Vehicles (NGV)*

FMVSS No. 304, *Compressed Natural Gas Fuel Container Integrity*

NFPA 505, *Fire Safety Standard for Powered Industrial Trucks Including Type Designations, Areas of Use, Conversions, Maintenance, and Operations*

SAE J30, *Fuel and Oil Hoses*

SAE J553, *Circuit Breakers*

SAE J554, *Electric Fuses (Cartridge Type)*

SAE J1127, *Low Voltage Battery Cable*

SAE J1128, *Low Voltage Primary Cable*

SAE J1681, *Gasoline, Alcohol, and Diesel Fuel Surrogates for Materials Testing*

SAE J2044, *Quick Connect Coupling Specification for Liquid Fuel and Vapor/Emissions Systems*

SAE J2045, *Performance Requirements for Fuel System Tubing Assemblies*

SAE J2260, *Nonmetallic Fuel System Tubing with One or More Layers*

UL 21, *LP-Gas Hose*

UL 62, *Flexible Cords and Cables*

UL 66, *Fixture Wire*

UL 83, *Thermoplastic-Insulated Wires and Cables*

UL 87C, *Outline of Investigation for Power-Operated Dispensing Devices for Diesel Exhaust Fluid*

UL 94, *Tests for Flammability of Plastic Materials for Parts in Devices and Appliances*

UL 157, *Gaskets and Seals*

UL 275, *Automotive Glass-Tube Fuses*

UL 275A, *Outline of Investigation for Automotive Blade Type Fuses*

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UL 484, *Room Air Conditioners*

UL 489, *Molded-Case Circuit Breakers, Molded-Case Switches, and Circuit-Breaker Enclosures*

UL 569, *Pigtails and Flexible Hose Connectors for LP-Gas*

UL 583, *Electric-Battery-Powered Industrial Trucks*

UL 746B, *Polymeric Materials – Long Term Property Evaluations*

UL 746C, *Polymeric Materials – Use in Electrical Equipment Evaluations*

UL 758, *Appliance Wiring Material*

UL 1063, *Machine-Tool Wires and Cables*

UL 1077, *Supplementary Protectors for Use in Electrical Equipment*

UL 1276, *Outline of Investigation for Welding Cable*

UL 1337, *LP-Gas, Natural Gas, and Manufactured Gas Devices for Engine Fuel Systems*

UL 1426, *Electrical Cables for Boats*

UL 2003, *Outline of Investigation for LP-Gas Cylinder Assemblies*

UL 2726, *Outline of Investigation for Battery Lead Wire*

## 5 Glossary

5.1 For the purposes of this Standard, the following definitions apply.

5.2 In the text of this Standard, the term truck is used to mean an industrial combustion engine-powered industrial truck. The type or types of truck(s) to which a specific requirement applies is identified by the heading under which the requirement is located and by specific references in the text to the applicable requirements.

## 6 Samples

6.1 Unless otherwise expressly stated herein, the performance of an industrial truck shall be satisfied by the testing of a representative model or a new vehicle.

## CONSTRUCTION

## TYPES G, D, LP, AND CN

## 7 Electrical Systems

7.1 All wiring shall comply with one of the following, as applicable to the intended use which includes, but is not limited to, temperature, voltage, and current ratings for the wire:

a) UL 758 / CSA C22.2 No. 210;

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