

Oil Bulletin: Adoption of the B139 Series: 19-Installation Code for Oil-Burning Equipment (Oil Code)

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The Canadian Standards Association B139 Series: 19-Installation code for oil-burning equipment (Oil Code) will come into effect in Manitoba on September 1, 2022. This code is being adopted in Manitoba without amendments.

Adoption of this new code edition will bring Manitoba in line with our New West Partnership counterparts in Western Canada and other Canadian jurisdictions.

The 2019 edition of the Oil Code includes a number of key changes for enhanced safety in the installation and use of oil-burning equipment. These updates reflect the different requirements for residential installations, large installations, special installations and separate requirements for stationary engines.

A summary of key changes in the 2019 Oil Code are indicated below:

CSA B139 Series: 19

The major changes to this edition include:

- The addition of annual visual inspection of fuel oil tank, tubing, piping and fuel oil filters for leakage in CSA B139.1.0 and in CSA B139.2.
- Clarification that the external parts of the body of a fuel-containing device, component, or accessory installed in an oil line has a melting point of not less than 538 °C (CSA B139.1.0).
- New requirement where an external pressure relief valve is installed at an oil pump discharge and downstream of a check valve.
- New requirement for the ullage space of the main tank to which the pressure-relief valve is piped to be at least the volume of piping between the check valve and the automatic valve and the supply line into the auxiliary supply tank is equipped with a means of anti-siphon where a drop tube is installed (CSA B139.1.0).
- The requirements for loop systems have been clarified to apply to elevated installations only (CSA B139.1.0).
- A new requirement limiting the acceptance of tanks conforming to API 650 to field erected tanks with capacities that exceed 175 000 L (CSA B139.1.0).
- A new requirement applying to auxiliary tanks operating in a continuous overflow condition (CSA B139.1.0).
- A new requirement limiting installation storage and supply tanks within tank protection levels II, III, IVA or IVB in buildings of non-combustible construction in conformance with Division B, Part 3 of the National Building Code of Canada (CSA B139.1.0).
- A clarification that vent pipes where the opening faces downward without a vent cap is not considered sufficient to prevent the ingress of foreign objects and blockage by ice build-up (CSA B139.1.0).
- New requirements have been added for fill pipes or vent pipes recessed into the façade of a building (CSA B139.1.0).
- New requirements have been added for through-the wall venting for appliances installed under CSA B139.1.0.
- New requirements to remove an aboveground or underground tank system that has not been used for more than 3 years (CSA B139.1.0).

- New requirements have been added for diesel engines driving fire pumps (CSA B139.1.1 – Stationary Engines).
- New requirement has been added, permitting the operating temperature for an indoor engine supply tank that can exceed 38 °C (CSA B139.1.1 – Stationary Engines). However, residential and small commercial outdoor aboveground and indoor tanks shall be located and operated so that the temperature of the oil in the tank will not exceed 38°C (CSA B139.2).
- A clarification that engine service rooms require a non-combustible, liquid-tight sill, or ramp to a height corresponding to 10% of the volume of the largest tank in the room, and at least 150 mm (6 in) high (CSA B139.1.1 – Stationary Engines).
- New requirements have been added for through-the-wall venting of engine exhausts (CSA B139.1.1 – Stationary Engines).
- New requirement has been added, prohibiting outdoor installation of oil return lines (CSA B139.2); and new requirements for through-the-wall venting for condensing appliances (CSA B139.2).
- The Reference Publications have been expanded and updated.

Everyone responsible for conducting gas related work is encouraged to familiarize themselves with the CSA B139 Series: 19 Installation code for oil-burning equipment, which can be purchased online from the CSA Group.