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AMENDMENT 2
2015-11-15

Small craft — Permanently installed petrol and diesel fuel tanks

AMENDMENT 2

*Petits navires — Réservoirs à carburant à essence et diesel
installés à demeure*

AMENDEMENT 2

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Full standard:
<https://standards.iteh.ai/catalog/standards/sist/21487-2012-21487-2012-amd-2>
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The committee responsible for this document is ISO/TC 188, *Small craft, SC 2, Engines and propulsion systems*.

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Pages 4(end) and 5:

With the purpose of improvement of test sequence/understanding and allowing air to be used for leakage tests, replace Clause 7.2 with:

7.2 Hydraulic pressure test

WARNING — Do not to exceed the maximum static test pressure. Do not use solutions containing ammonia for testing.

7.2.1 Hydraulic pressure/strength type test

A tank representative of the tank, series type, with all its accessories, shall be pressure type tested.

Prior to the test, non-metal tanks shall be filled with test liquid C in accordance with ISO 1817 or the fuel for which the tank is fabricated and stored for at least 28 days at an ambient temperature of $(21 \pm 2/0)^\circ\text{C}$. The hydraulic pressure test shall be performed immediately after emptying the test liquid out of the tank.

The pressure shall be gradually increased to the greater of:

- 20 kPa; or
- 1,5 times the highest hydrostatic pressure to which the tank can be subjected in service (maximum fill-up height above tank top).

This pressure shall be maintained for:

- 1 min for metal tanks;
- 60 min for thermoplastic and fibre reinforced plastic (FRP) tanks with inner coatings having a density $\geq 935 \text{ kg/m}^3$; and
- 5 h for thermoplastic and fibre reinforced plastic (FRP) tanks with inner coatings having a density $< 935 \text{ kg/m}^3$.

During this time, the tank shell shall not crack or leak; however, it may be permanently deformed.

7.2.2 Leakage test

Each fuel tank identical to a type tested tank shall be internally leakage tested with a test pressure of 20 kPa. Air pressure may be used as an alternative to hydraulic pressure for this test.

The test pressure shall be applied for 5 min without pressure drop or rise. After the test, the fuel tank shall not show any leakage when using a leak detection method other than the pressure-drop method.

WARNING — If air is used for this test care should be taken not to exceed a test pressure of 20 kPa.

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