used to maintain sufficient engine cooling during dynamometer operation.

§ 91.308 Lubricating oil and test fuel.
(a) Lubricating oil. (1) Use the engine lubricating oil which meets the marine engine manufacturer’s requirements for a particular engine and intended usage. Record the specifications of the lubricating oil used for the test.
(2) For two-stroke engines, the fuel/oil mixture ratio must be that which is recommended by the manufacturer. If the flow rate of the oil in the engine is greater than two percent of the fuel flow rate, then the oil supplied to the engine must be added to the fuel flow in the emission calculations described in §91.419 and §91.426. Good engineering judgment may be used to estimate oil flow when oil injection is used.
(b) Test fuels—certification. The manufacturer must use gasoline having the specifications or substantially equivalent specifications approved by the Administrator, as specified in Table 3 in appendix A of this subpart for exhaust emission testing of gasoline fueled engines. The specification range of the fuel to be used under this paragraph must be reported in accordance with §91.109(d).
(c) Test fuels—service accumulation. (1) Unleaded gasoline representative of commercial gasoline which will be generally available through retail outlets must be used in service accumulation for gasoline-fueled marine engines. As an alternative, the certification test fuels specified under paragraph (b) of this section for engine service accumulation. Leaded fuel may not be used during service accumulation.
(2) The octane rating of the gasoline used may not be higher than 4.0 research octane numbers above the minimum recommended by the manufacturer and have a minimum sensitivity of 7.5 octane numbers, where sensitivity is defined as research octane number minus motor octane number.
(3) Other fuels may be used for testing provided:
(1) They are commercially viable,
(2) Information, acceptable to the Administrator, is provided to show that only the designated fuel would be used in customer service,
(3) Use of a fuel listed under paragraph (b) of this section would have a detrimental effect on emissions or durability; and
(4) The Administrator provides written approval of the fuel specifications prior to the start of testing.

§ 91.309 Engine intake air temperature measurement.
(a) Engine intake air temperature measurement must be made within 100 cm of the air-intake of the engine. The measurement location must be either in the supply system or in the air stream entering the engine.
(b) The temperature measurements must be accurate to within ±2 °C.

§ 91.310 Engine intake air humidity measurement.
This section refers to engines which are supplied with intake air other than the ambient air in the test cell (i.e., air which has been pumped directly to the engine air intake system). For engines which use ambient test cell air for the engine intake air, the ambient test cell humidity measurement may be used.
(a) Humidity conditioned air supply. Air that has had its absolute humidity altered is considered humidity-conditioned air. For this type of intake air supply, the humidity measurements must be made within the intake air supply system, and after the humidity conditioning has taken place.
(b) Unconditioned air supply. Humidity measurements in unconditioned intake air supply must be made in the intake air stream entering the engine. Alternatively, the humidity measurements can be measured within the intake air stream entering the supply system.

§ 91.311 Test conditions.
(a) General requirements. (1) Ambient temperature levels encountered by the test engine throughout the test sequence may not be less than 20 °C nor more than 30 °C.
(2) Calculate all volumes and volumetric flow rates at standard conditions for temperature and pressure. Use these conditions consistently throughout all calculations. Standard conditions for temperature and pressure are 25 °C and 101.3 kPa.