Issue Date: December 15, 2025

Veeder-Root

8600 Series / TLS-450 & 8601 Series/TLS4 Series Consoles
(Model 8508 Series Wireless System with Magnetostrictive Probe)

AUTOMATIC TANK GAUGING METHOD

Certification	Leak rate of 0.2 gph with PD = 96.82% and PFA = 0.0715%. (8600 Series) Leak rate of 0.2 gph with PD = 96.64% and PFA = 0.0820%. (8601 Series)
Leak Threshold	0.13 gph for leak rate of 0.2 gph. A tank system should not be declared tight if the test result indicates a loss that equals or exceeds this threshold.
Applicability	Gasoline, diesel, aviation fuel, fuel oil #4, solvents, waste oil, biodiesel and ethanol blends compatible with probe floats.
Tank Capacity	Maximum of 30,000 gallons for leak rate of 0.2 gph. Minimum product level required is based on tank diameter as follows: 48" dia/min 18"; 64" dia/min 21"; 72" dia/min 24"; 96" dia/min 30"; 120” dia/min 39"; 126" dia/min 39"; 132" dia/min 39".
Waiting Time	Minimum of 8 hours between delivery and testing. There must be no dispensing or delivery during test.
Test Period	Minimum of 5 hours Test data are acquired and recorded by system’s computer (microprocessor). Leak rate is calculated from the difference between the first and last data collected.
Temperature	Average for product is determined by a probe which contains 5 thermistors. At least two thermistors must be submerged in product during test.
Water Sensor	Must be used to detect water ingress. Minimum detectable water level in the tank is 0.9979 inch. (2 inch floats) Minimum detectable water level in the tank is 0.6982 inch. (4 inch floats) Minimum detectable change in water level in tank is 0.0194 inch. (2 inch floats) Minimum detectable change in water level in tank is 0.0116 inch. (4 inch floats)
Calibration	Thermistors and probe must be checked and, if necessary, calibrated in accordance with manufacturer's instructions.
Comments	Not evaluated using manifolded tank systems. Therefore, for manifolded tank systems, this certification is only applicable when there is a probe used in each tank and the siphon is broken during testing. Tests only portion of tank containing product. As product level is lowered, leak rate in a leaking tank decreases (due to lower head pressure). Consistent testing at low levels could allow a leak to remain undetected.

EPA leak detection regulations require testing of the portion of the tank which routinely contains product.

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