



# Tank Settlement & Roundness Test



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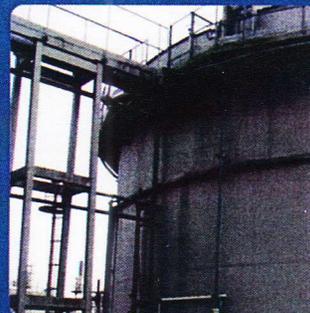
If we consider a Steel Storage Tank like a plastic bucket, when we pour water into the bucket the plastic walls tend to expand then again come back. After we have filled the bucket full, we notice that the top rim of the bucket tends to be slightly elliptical instead of circular in shape. When we stir our hand inside water we notice that the bucket walls tend to warp. Same thing happens with the large storage steel tank of oil, chemical. As it is daily filled in and out with oil, chemical there tends to be deformation of the tank walls, pressure on the tank floor and specially if it is a floating roof tank, the roof due to uneven foam seal gap. Also due to enormous weight of liquid pressure exerted on the tank bottom, the tank bottom tends to subside which can cause cracks in joints and make the tank tilted on one side gradually affecting centre of gravity.

The tank can also tilt to one side due to uneven liquid head pressure. All this phenomenon is called out of roundness, tank tilt and tank floor settlement. If these are not studied and a detailed report made where you can repair, you can understand the catastrophe and safety/technical issues involved. It is this tank health that needs to be studied under API 653 B standard. To measure, study, analyze and make proper reports is very difficult. We have lots experience in the field of tank calibration since 1983, which make us expert to study the tank health with our accurate Total Station, Laser equipment and experienced engineers. After a few years of use, large tanks should always be studied for tank roundness, tilt and bottom settlement. We have mastered this technique of tank health checkup which can also include a detailed ultrasonic thickness report of tank floor and shell as floors can corrode over time, especially MS tanks. So when tanks are decommissioned for any repair or cleaning, they should be studied as mentioned above. Just do the call or mailus. We are available to do this study around the world.



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