

Tank Cleaning Test in Trinidad

Purpose: To test the efficiency of VertKleen CR and HCR and Speklean to clean a boat tank saturated with bunker fuel.

Safety: No data was available

Test Procedure: No procedure was written for the testing.

VertKleen CR is a synthetic high alkaline, Industrial Cleaner and Degreaser. It was sprayed 20 times from a quart bottle on the side of a tank saturated with oil residue. It was wiped immediately with a rag. As per standard procedure, for degreasers, the product should be allowed to react and soak with any residues, for at least 15 minutes.

See below, VertKleen CR performed very well to remove all dirt and grime.

Figure #1 VERTKLEEN CR

Before



After





VERTKLEEN HCR is a synthetic Low Alkaline Degreaser that was poured on the walls of the tank instead of spraying, less than one quarter. Instead of wiping, the area was sprayed with a pressure washer immediately after the application.

The VertKleen HCR performed very well as can be seen in the pictures below.

Figure #2 VERTKLEEN HCR

BEFORE



AFTER





Speklean a Butoxyethanol base degreaser, was sprayed 75 times from the one-quart bottle on the surface of the tank and wiped with a cloth immediately. As can be seen, the cleaning was not done adequately, with oil residue smudge on the surface.

Figure #3 SPEKLEAN

BEFORE



AFTER





Conclusion:

This experimental work evaluated the effect of VertKleen HCR, VertKleen CR and Speklean as degreasing products. From different perspectives, VertKleen HCR is the most effective degreaser of all three. This is due to the total cleaning of the tank side that had a higher concentration of fuel oil as per observation.

The observation test with the VertKleen CR and Speklean showed that CR, with less product usage, showed better results.

Recommendations:

A testing document must be written and approved by all parties before moving forward. This would ensure the testing of the products is completed in a controlled and documented manner.

When choosing a suitable degreasing agent, many factors need to be considered, the environmental requirements, carbon footprint reduction, corrosion, effects on seals and cost of the cleaning/degreasing process.

Degreasing products are also influenced by the chosen degreasing technology. Spray degreasing is more effective than immersion, since the chemical effect of degreasing is also supported by the dynamic effect of the degreasing solution applied under pressure.



