



TANK OPTIMIZATION, TNK25 HALVE RESERVOIR VOLUME, PROVIDE SUBSTANTIAL OIL & SPACE SAVINGS

Technical Application Bulletin

CHALLENGE

An OEM manufacturing fire trucks wanted to free up space for more firefighting equipment and overall reduce the weight & improve the performance of their existing tank assembly.

APPROACH

After a Tank Optimization analysis of the customer's 55 gallon metal reservoir, Schroeder Industries determined that Schroeder's stock TNK25 would provide equivalent deaeration to the existing fabricated tank while reducing the fluid volume by over half.

RESULTS

- Tank volume reduction by 30 gallons while maintaining high filtration performance
 - Reduction in tank size and oil volume provide **cost savings of \$946** per unit
 - **CO2 reduction of 710lbs** per unit
- Tank assembly **weight reduced by 230lbs**, providing increased space for vital equipment such as water hoses, fittings, etc
 - Increased storage improves customer position in the fire truck market
- Weight reduction also provides on-road application efficiency gains

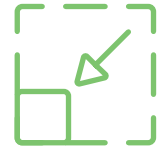
◆ Tank Optimization uses cutting-edge simulations and CFD analyses to reduce volume and fluid velocity for an improved hydraulic reservoir

◆ TNK Series: Complete tank packages with filter housings, breathers, other components; engineered for improved degassing and durability in operating extremes



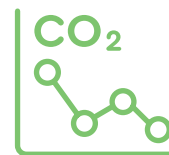
OEM SEEKING MORE SPACE, EFFICIENCY ON FIRE TRUCK

30 GAL
REDUCTION IN RESERVOIR VOLUME



230 lbs
REDUCTION IN TANK ASSEMBLY WEIGHT

\$946
INITIAL COST SAVINGS PER UNIT



710 lbs
INITIAL CO₂ SAVINGS PER TANK ASSEMBLY

MACHINE SPACE FREED UP FOR ADDITIONAL EQUIPMENT & SUPPLIES

