



CONSERVATION OF RESOURCES

Tank Optimization Provides 15 Gallon Reservoir Reduction for Mobile OEM

Technical Application Bulletin

CHALLENGE

An OEM specializing in custom truck-mounted machines reached out to Schroeder to increase energy efficiency and decrease the oil volume, weight, and reservoir footprint in their systems. Additionally, they hoped to streamline their tank assembly sourcing.

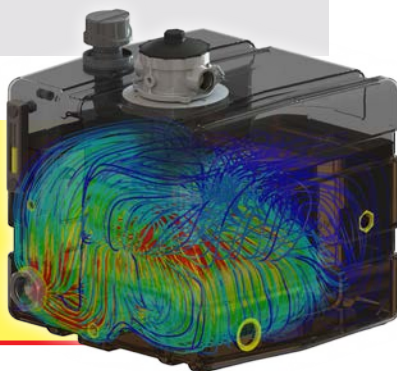
APPROACH

After performing a range of simulations using the OEM's 40 gallon metal fabricated tank, Schroeder Industries discovered that the oversized tank and sub-optimal return filter configuration offered significant opportunities for improvement in the reservoir design. Ultimately, the customer transitioned to a much more efficient 25 gallon Schroeder rotomolded TNK package.

RESULTS

- Tank size reduction saves 15 gallons of oil per unit, reducing oil consumption and expense.
- Tank assembly weight reduced by 214lbs overall (including 114lbs in oil alone).
- Schroeder Industries became an efficient, single-source supplier for all tank assembly components.

In our Tank Optimization Analysis service, Schroeder Industry utilizes advanced simulation technology to identify inefficiencies in the design of existing reservoir, opening the door to design improvements and even substantial downsizing in some cases.



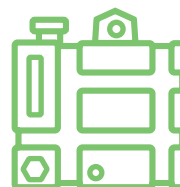
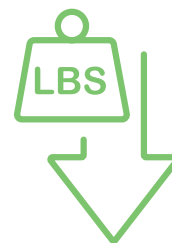
SEEKING TANK SIZE REDUCTION, STREAMLINED SOURCING

37.5%
REDUCTION IN
TANK FOOTPRINT



15 GALLONS
OF OIL SAVED
PER UNIT

214lb
OVERALL TANK
ASSEMBLY WEIGHT
REDUCTION



STREAMLINED TANK
ASSEMBLY SOURCING:
SCHROEDER DOES IT ALL!

