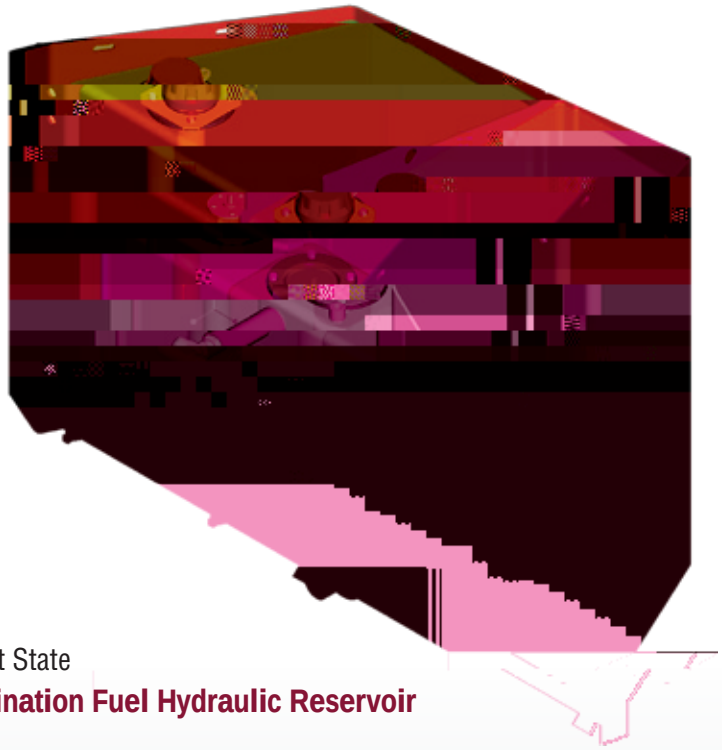
HELGESEN

Case Studies

Telescopic Material Handling

Construction Equipment



Current State

Combination Fuel Hydraulic Reservoir

Challenge:

A large OEM of telescopic material handling equipment had experienced severe quality defects on its combination fuel/hydraulic reservoir causing assembly line downtime and field warranty failures.

Solution:

Utilizing the Helical Program, Helgesen helped the customer realize a cost savings of 9% while producing a defect-free assembly utilizing the following techniques:

- **Reduced potential failure modes by redesigning the reservoir. Modified part fit-up, bend radii, material types and drain locations to create a defect-free assembly.**
- **50% reduction in reservoir leak point weld seams.**
- **7x increase in manufacturing throughput by applying R4 production streets.**
- **In-house paint capabilities enabled better appearance control for a highly cosmetic assembly.**