

# QuickFit™ Oil Change System Success Story

## Rubber Tyred Gantry (RTG) Crane Application for QuickFit™ Oil Change System

Along the east coast of the United States is where you'll find one of the country's fastest-growing container ports. It's one of the busiest with vessels unloading and reloading cargo and departing for the sea as quickly as they arrive.

Achieving a level of operational efficiency for this port would not be feasible without the reliance of RTG cranes. These colossal giants rise high above the shipyard offering extraordinary productivity when hoisting and stacking containers, some as large as 45 tons.

### The Problem

This port houses nearly 100 RTGs and their importance makes them a main focus for the maintenance team.

A challenge the team was facing was changing oil efficiently since there are different models of RTGs which means unique engine and components, such as fittings, disconnect hoses and valves, making the process and tools to perform oil changes distinct.

For technicians, this means more time is required changing oil as the process fluctuates crane by crane. Adding to the time of the process was draining 80 quarts of oil from the pan. Plus, the potential of oil leaks and spills using a traditional oil change method could be detrimental to the environment with an increased risk of oil getting into the ocean.

### The Solution

Parker's QuickFit™ Oil Change System was installed on a number of RTGs throughout the port. The maintenance team found the standardization of QuickFit Oil Change process saved them time and resources. They did not have to deal with differentiating processes and equipment from one RTG model to the next.

Also, technicians saved valuable time with the evacuation of oil from the engine sump. QuickFit features a single connection point that allows oil to drain directly to the waste containment, and then applies a vacuum to extract the used oil from the filter. The same connection point is used to refill the system with new oil.

By utilizing one connection per compartment for extraction and oil refill, the maintenance team found the oil change process was controlled and simplified, and eliminated risk of safety hazards or spills.



### Success Factors

Three-step oil change process ensures faster oil change times and reduction in labor costs.

QuickFit's ergonomic system allows for easier access, keeping workers clean, safe and more productive.

Standard process of conducting oil changes for every model and make for equipment.

Eliminates risk of oil leaks and spills that could be harmful to the environment.



Parker Hannifin Corporation | **Quick Coupling Division**  
8145 Lewis Road, Minneapolis, MN 55427

[parker.com/QuickFit](http://parker.com/QuickFit)