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Challenge: Ports America Chesapeake was looking to replace their container handlers with more energy-efficient, yet powerful lift trucks.

Solution: The Ports America Chesapeake's operation at Seagirt Terminal invested in a fleet of Hyster® H1150HD container handlers with new Tier 4 (interim) engines. The new container handlers provided fuel saving technology that reduced environmental impact while maintaining efficiency and increasing performance with a reduction in fuel consumption by up to 20%.

Impact: The high level of performance and speed found in the new trucks keeps the terminal productive and green for the surrounding Chesapeake Bay.

BACKGROUND Ports America is the largest terminal operator and stevedore in the nation with more than 42 ports in 80 locations. The mission of Ports America is to continue serving their customers through maintaining safe operations, providing excellent service and offering innovative, flexible solutions. Seagirt Marine Terminal is one of multiple terminals in the Baltimore, Md., region, handling around 700,000 TEUs (twenty-foot equivalent units) per year.

With a team of highly skilled operators focused on productivity and energy efficiency, the Ports America Chesapeake's operation at the Seagirt Marine Terminal decided to replace their older units with an emission-reducing and environmentally friendly "top pick" lift truck that would not forfeit any productivity or speed.

CHALLENGE Ports America Chesapeake required a lift truck that would stand up to the harsh ocean-side environment while maintaining a high level of speed in hoisting and moving cargo to and from the shipyard. Ensuring a consistent, yet fast, hoisting

speed is important for operators, who regularly measure the speed of how fast a load is hoisted to keep productivity at an all-time high.

The terminal operation also wanted its lift trucks to have sustainable elements that would not pollute the air. Emissions from exhaust pipes were poor for the air quality and would blow into the direction of operators.



"Ports America Chesapeake is actively engaged in the community and regularly works with the Maryland Port Administration on many different community initiatives. We sponsor a number of different volunteer cleanup projects as well as introduce new technology to assist in the reduction of our total

carbon footprint at the Port of Baltimore,” said Patrick Howell, crane and engineering manager at Ports America Chesapeake. “Our biggest concern when replacing our older lift trucks was to find a machine in which we could reduce emissions levels and particulate matter while maintaining a certain level of productivity to service our customers and the trucking community.”

SOLUTION Ports America Chesapeake decided to test the new Tier 4i compliant Hyster® H1150HD container handler. Although the lift trucks featured a smaller displacement engine, the horsepower gains based on the new design meant they noticed no difference in power or hoisting speed. The engines and container handlers’ environmental benefits also exceeded expectations.

The engine is extremely quiet and produces cleaner emissions. The trucks feature a lower idle RPM so that the units hardly seem like they are running when not in full use.

Another feature that was well received was the fact that urea was not needed to meet the stringent emissions level requirement. While many container handling trucks require

frequent monitoring and refilling of their urea tanks, these Hyster Tier 4i engines do not require urea at all, saving time and money, while maintaining all their environmental benefits.

RESULTS On top of excellent fuel savings from the highly efficient Tier 4i engine, the trucks proved themselves worthy additions to Ports America Chesapeake’s operation at the Seagirt Marine Terminal. The Ports America team continued to drive productivity while doing their part to reduce environmental impact. “Hoist speed has always been good with Hyster trucks, and this new machine has been well received by the operators.” said Howell. He also appreciated being in this first testing class to try the new engine model.

“Ports America Chesapeake strives to find new environmental initiatives and partnering up with Hyster to test their first U.S. Tier 4i top loader was something that we couldn’t pass up,” said Howell. “We’ve been happy with the performance of the Hyster Tier 4i trucks and are scheduled to buy two more of these top loaders by the end of the 2013.”



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