

## **RePneu II Used in Mega Transporter in Construction of New Champlain Bridge**

Written By: Dave Jenkins, President Mersinco Enterprises Inc.  
June 18, 2017

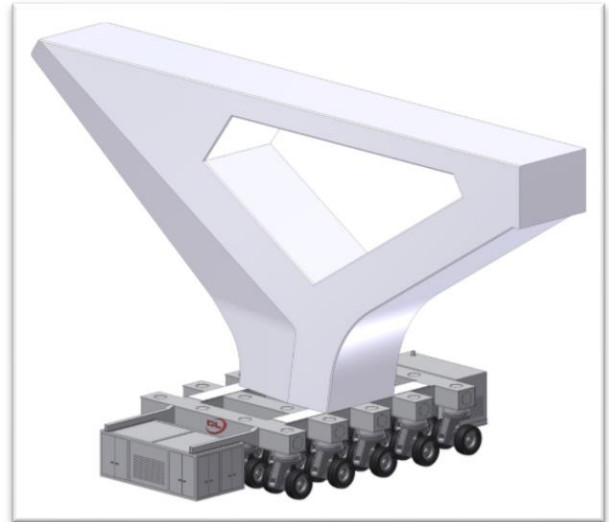
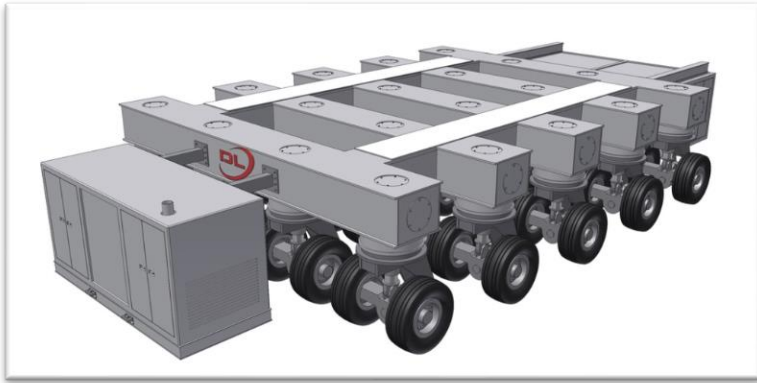
The Champlain Bridge in Montreal, QC was first constructed in 1962. With nearly 160,000 daily crossings the bridge is the busiest single-span bridge in Canada. Over time however, with that much traffic and with deteriorating structures due to weather, fixing the bridge became too expensive and exhaustive. In 2008 Transport Canada decided to build a replacement bridge and released a tender to complete the bridge before 2020.

This new bridge would be 10 lanes and would be made of materials that would not deteriorate due to weather conditions. The St Lawrence Construction Group won the bid and in 2015 began actual construction on the bridge in late 2015. One of the members of their group, SNL Lavelin, contracted out a concrete Mega Transporter to Dorman Long out of the UK.



Dorman Long's DL-MT1000 Mega Transporter was the ideal solution for this bridge. It would haul the concrete pieces across the span in order to build the bridge. A 1000-ton capacity, 2.5m stroke jack-up system for handling precast concrete sections of the New Champlain Bridge side spans was also required.

The Mega Transporter had 40 Dunlop Aircraft Tires sized H44.5x16.5-21 which were specifically designed for this machine. It is able to drive around a curve, drive diagonally and rotate about its centre point (carousel) at a full load speed of 1 km/hr and an unloaded speed of 3 km/hr.



For safety reasons and to eliminate downtime, Dorman Long researched the best way to fill these tires. After consultation with several Accella Technical and Sales Representatives in both Europe and North America, it was decided that the 40 tires on the transporter would be filled with RePneu II. RePneu II's unique formulation is designed to handle both the weight and speeds reached by the Transporter and was an ideal solution for increasing safety on the project. In late January 2016, 40 of these tires were filled using a Graco Flushless II pump at a long-standing customer of Mersinco's - Pneus ICM in Montreal, QC. Jean LaPointe, Manager of Pneus ICM, ensured the project ran smoothly and finished on time. The tires were required to be filled at 214 PSI with an average weight of 500lbs of TyrFil per tire. The 40 tires were filled in 10 days.

The Mega Transporter is now on-site at the bridge location and has been used in the early stages of the project. In fact, in February of 2017 the first concrete footing was moved into place (shown below) and our contact at Dorman Long has assured us that there have been no issues with the filled tires and he is confident they will effectively serve their project. The bridge is scheduled to be completed in late 2018 at a total cost of \$4.239 billion.



**MERSINCO ENTERPRISES INC.**

1-800-272-4474 • [www.mersinco.com](http://www.mersinco.com) • [www.carefreetire.ca](http://www.carefreetire.ca)