

**Project Type(s):**

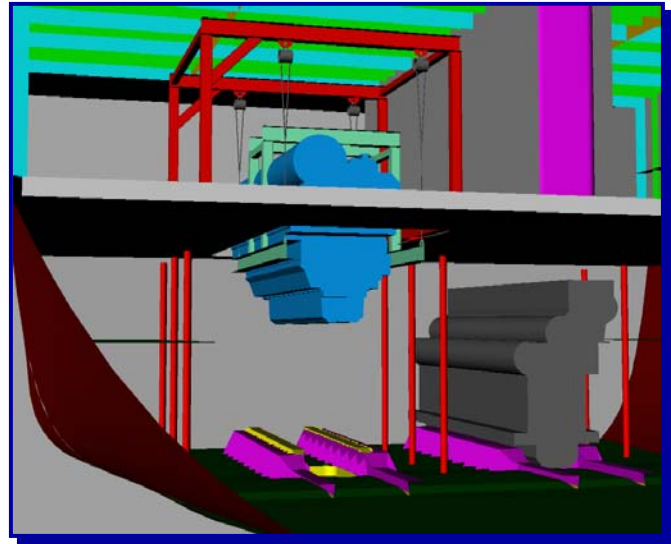
REPAIR MANAGEMENT AND SUPERVISION

**Vessel(s):**

M/V Apollo – 110m Ro-Ro Car Ferry

**Client:**

Labrador Marine Inc.  
Goose Bay, NL



**Profile:**

- **Poseidon Marine Consultants Ltd.** was engaged to coordinate the emergency replacement of the port main engine, as the result of catastrophic damage sustained to the existing unit.
- Preliminary tasks involved damage source assessment on existing engine and the specification, evaluation and acquisition of new engine. Design tasks included modification of engine seating structure to suit the new engine and new fastening and chocking arrangements, and the design of the equipment and development of procedures used to lower the new machinery into the engine room from the Vehicle Deck.
- Other tasks consisted of arranging for transportation of engine to site of installation, and strategic planning and management of the installation process.



**Project Timeline:**

- Fatal engine damage occurred one week prior to start of vessel's operating season.
- Finnish-built engine weighed 45 tonnes and measured 3.5m in height. A custom-built lifting frame was built to transmit effective lifting points for lowering into the engine room.
- Engine transported from Halifax on special low-bed tractor trailer acquired from Ontario. The truck required special permits to travel and had a mere 4" of ground clearance.
- New engine was installed 8 weeks after initial incident at the St. Barbe terminal, with efforts resulting in minimal vessel downtime.