

Application story



Lubricating Oil for Ship Thruster Systems

Location	Netherlands	Hydra-Cell model	G12XKCTHFEHA / G25XKCTHFEHA
Type of application	Lubricating Oil for Ship Thruster Systems	Flow rate	20 - 60 l/min (5 - 15 gpm)
Liquid	Lubricating Oil	Pressure	8 bar (116 psi)
Application details	Four ships were threatened with costly delays in a Dutch port because of problems in the screw pumps delivering lubricating oil to thruster machinery. In all cases, a while after the oil heated up, the pumps were losing capacity and suffering damage. Brought in to advise, pump specialists PromoTec analysed the system and determined that the root of the problem lay in the inability of the screw pump to avoid cavitation bubbles once the oil (Shell Omala 150) became hot. PromoTec's diagnosis was accepted and an order placed for four Hydra-Cell G25 pumps modified to customer requirement. The first was delivered almost immediately, with the others following one week later. Installation was completed and the ships were able to sail on schedule. The G25 units performed well, encouraging the customer to optimize on size. Working with the customer's machine building company in the Netherlands, PromoTec have engineered and supplied a new 'standard' solution incorporating the Hydra-Cell G12 pump. All the pumps are installed on ships, which means service and repeat business can arise anywhere in the world.		
Advantages of Hydra-Cell pump on this application	Reliable performance with hot liquids.		

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