Hydraulic Thruster Features

Hydraulic Marine Systems’ Thrusters are designed and built to meet and exceed the rigorous demands of the marine construction industry. The following is a summary list of features built into these machines to make them durable enough to last for years to come.

- **Hot Dip Galvanized Frame Construction**
  - C20.7 12” U - Channel Construction
  - Stainless Steel Hardware
  - 10 gauge Galvanized sheet metal floors
  - Diamond plated aluminum platforms

- **Aluminum Fuel Tanks**
  - Double baffled fuel cell
  - Easy access manual drain valve
  - 1/2” thick neoprene support pads
  - Lockable fuel filler cap

- **Aluminum Helms and Hoods**
  - Elevated helm platforms with site line approximately 9’ above barge deck
  - Built in hand pulls and operator safety rail
  - Protective engine hood with top mounted exhaust (directed away from operator)
  - Optional engine side cover panels

- **Aluminum Hydraulic Tanks**
  - Reinforced, baffled tank
  - Built-in site glass with temp gauge
  - 100 mesh suction screen
  - Top access hatch
  - Patented Eaton Vickers Mobile Gate H2o filler cap - allows pressure / airflow escape while preventing moisture intrusion

- **Tier 3 Compliant Industrial Turbo Diesel Engines**
  - Caterpillar C7 – 275HP
  - Cummins QSCP 275HP
  - Duetz TCD20 268HP
  - Perkins 1100 Series 50 to 225HP
  - Radiator Cooled
  - Vibration Isolators
  - Electronically controlled
  - Air Charged

- **Heavy Duty Drive Assemblies**
  - Hardened Stainless Steel 17-4 Aqua Met propeller shafts
  - Manganese Bronze Propellers
  - Stainless Steel 7/8” flange bolts
  - Triple epoxy coated Drive housings with 2 coats anti-defoliant
  - Heavy Duty UHDPE bushings, equipped with grease fittings
  - Tapered – Timken bearings, housed in oil
  - Mechanical shaft seal with secondary quad seal
  - Access Cover to lower drive motors
  - Propeller guards or Stainless Steel Nozzles

- **Heavy Duty Hydraulic Components**
  - U.S. made Areo-quip hoses – up to 5000psi where required
  - Hydraulic oil coolers
  - Dual filtering system with charge side and return side filtering
  - Closed loop high pressure pumps and motors
  - Sauer-Danfoss pumps and motors
  - Eaton Corp. Pumps and motors