



Purified Oil Storage Tank



AST-50



Dirty Oil Storage Tank



Dirty Oil & Purified Oil Before & After AST-50

Salt Water

Salt & Water Removal

Veolia Environmental Services operates ROV (Remote Operation Vessel) or robotic submarine that works under the ocean floor for deep sea crude oil drilling operation. This ROV is remotely controlled and operated from the control room in the surface vessel. ROV equipment operates with high pressure hydraulic oil to counteract 10,000 psi of ocean floor water pressure. Sea water continuously leaks through bad seal in hydraulic system. This causes new hydraulic oil replacement in ROV every **3 to 4 days** or when ROV reaches the surface vessel for supply refilling. **Salt water** in hydraulic oil is very **corrosive** causing hydraulic seal to prematurely deteriorate for more leaked oil to the ocean.

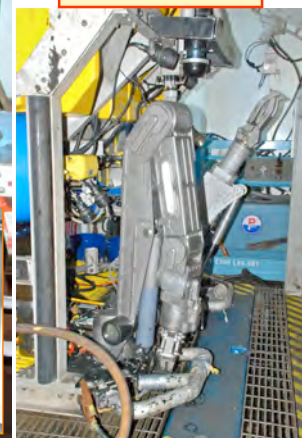


PurePack chemical filter removes sub micron corrosive salt, oil oxidation or oil acidity.

OilPure On-Board Oil Recycling Operation on Veolia Vessel Deck



ROV Robot Arm



ROV Remote Control Room on Surface Vessel



Vacuum Jet Dehydrator to remove excessive water with MS1 Moisture Sensor to control water to less than 50 ppm.

AST-50 Oil Recycling Machine

ROV Hydraulic oil is recycled with AST-50 oil purifier every 3 to 4 days. Hydraulic oil recycling consumption is about 100 gallons per week at a cost of @\$9.00 per gallon. The new oil cost saving is about **\$42,000 annually** plus the expensive cost of used oil hauling to the shore. This on-site oil recycling operation also save the environment for leaked hydraulic oil to the ocean.

OilPure and Veolia are part of the BP Oil supply chain that help support BP Oil spill operation. CNN news shows Veolia ROV repairing the damaged leaked valve.

Veolia ROV Surface Vessel



BP Oil Spill in the Gulf



ROV (Remote Operation Vessel)