



# CLEAR SOLUTIONS for complex fluids

## CETCO treats Produced Water and Slop Water on board an FPSO in Brazil; De-bottlenecking client storage issues



### CHALLENGE

- Manage the emulsified fluid stream with high solid content and flow rate offshore Brazil while complying with strict overboard discharge requirements

### SOLUTION

- CETCO deployed our Modular Offshore Slop Treatment package, MOST<sup>®</sup>, with two Dual Flotation Vessel Skids and one Pumping, Polishing, and Metering Skid. The CETCO Brazil team created a chemical solution that treats fluids at ambient temperature, minimizes residue, and achieves a flow rate of 15K barrels per day



### RESULTS

- CETCO's proprietary technology and efficient processes delivered a high-flow rate treatment solution that reduced oily tailings and offloading frequency while improving operational time and cost-effectiveness. This resulted in high production uptime and minimized water storage inventory for the client.



## SUCCESS STORY

Water Treatment & Filtration

# CETCO treats Produced Water and Slop Water on board an FPSO in Brazil; De-bottlenecking client storage issues

### CHALLENGE

Off spec water inventory build up on a Floating Production Storage and Offloading (FPSO) due to issues with the onboard water treatment package necessitates a high frequency of offloads, along with a high risk of cargo tank structural damage caused by aggressive corrosion from water storage with high organic content and solids contamination. The client attempted multiple strategies to reprocess the water with onboard equipment and chemicals with no success.

### CETCO SOLUTION

The CETCO Brazil team was contacted and initially conducted a technical visit onboard to evaluate the site conditions to determine the best solution to the customer. Samples from the stored produced water was sent to an onshore lab for fluids characteristics analysis enabling CETCO to determine the best available technology to separate Oil-In-Water (OIW) and achieve overboard discharge limit. CETCO mobilized a complete MOST® Modular Offshore Slop Treatment package consisting of two Dual Flotation Vessels Skid and one Pumping, Polishing and Metering Skid. CETCO came up with an adjusted chemical solution being able to treat the fluids at ambient temperature, with minimum residue and reaching target flow rate of 15K b/d. CETCO's proprietary MOST® Modular Offshore Slop Treatment technology has been field-proven for years. It effectively treats off-spec water inventory on board with no excursions or non-compliant discharge.

### RESULTS

CETCO proprietary technology combined with CETCO chemicals and process efficiency allowed for a high flow rate treatment solution as required by the client. Client was able to achieve considerable reduction of formed oily tailings, reducing the frequency of offload operations, improving operational time and optimizing the cost benefit of the treatment unit.

