

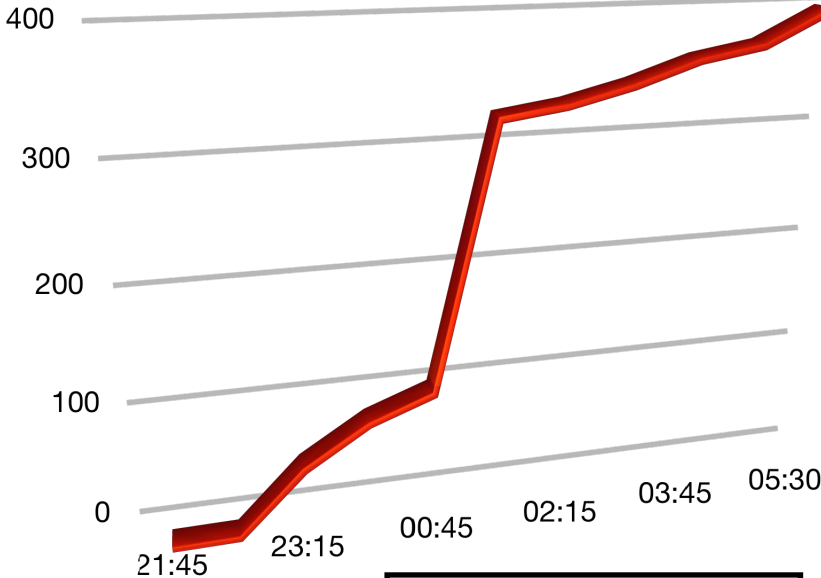


# GLYCOL SYSTEM CLEANING CHEMICAL CIRCULATION TECHNIQUE

TOTAL HAZARDOUS AND INTEGRATED SOLUTIONS

WAX INHIBITOR - FSOL 500

## Nephelometric Turbidity Units (NTU)



**Wax Inhibitor Chemical  
FSoL 500**



## Chemical Cleaning of Glycol Train

The Wax Inhibitor chemical FSoL 500 was used as an alternative cleaning chemical after a competitor's chemical failed to perform as directed in the cleaning of an offshore Glycol Train.

Work was scheduled to be carried out on an offshore Glycol Train after it had become contaminated with hydrocarbon deposits and buildup on internal trays, piping and heating coils. Initial planning provided for the use of a 3rd party cleaning chemical which was not suited for the job. Our team already had FSoL 500 onsite for another job but we suggested using the chemical in the Glycol system first to ensure maximum effect.

average NTU was recorded accordingly. The graph above clearly shows the rapid increase in Turbidity with the FSoL 500 to show the hydrocarbons being held in suspension. The increase in Turbidity was a clear indication of the dissolution properties of FSoL 500, and without reaching it's saturation point.

The chemical was pumped into the system (neat), using a total of 7.5m<sup>3</sup> to achieve a volume deemed suitable for circulation and flushing purposes.

Once complete and the system was opened for inspection it was noted that no further cleaning was required.

The used FSoL 500 was still used in another vessel and final results for that vessel was also within the client's acceptance criteria.

As the system cannot be opened during the flushing of FSoL 500 due to the aromatic vapours the performance was measured by it's Turbidity. The Turbidity (cloudiness/haziness of a fluid) of FSoL 500 is 0 NTU (i.e. crystal clear). Three (3) samples were obtained from the FSoL solution every 45 minutes and the

**Vessel:** Glycol System (Complete)  
**Vessel ID:** Train 'A'  
**Location:** Offshore  
**Facility:** Oil Production

### Contact Us

**Total Hazardous and Integrated  
Solutions**

81/64 M.10 T. Nongprue,  
Chonburi, Thailand 20150

[this@isthesolution.com](mailto:this@isthesolution.com)

[www.isthesolution.com](http://www.isthesolution.com)