

TRUE SUCCESSES

CUSTOMIZED DEMULSIFIER GOT OIL TO SALES SPEC WHILE REDUCING COSTS

Challenge

A key operator producing in the Clearwater formation of the Nipisi region was facing major challenges treating their oil. This producer was using a two tank system versus the typical three to four tanks normally used in this area, and they were unable to drop water out quick enough causing non-spec oil. Without a solution, this producer was unable to get the oil to sales spec.

Solution

The operator solicited PureChem Services to investigate a solution. Water samples were gathered and several solid analyses and extensive bottle testing was conducted. Existing demulsifiers were tested against two control demulsifiers. DM-3657 produced the best water quality and also had the best interface quality among the five demulsifiers compared.

Benefit

The implementation of DM-3657 saw the customer achieve benefits resulting in both a cost savings and a reduction in treating rates:

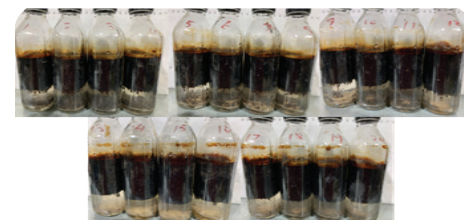
- Able to get all the wells to sales spec oil
- Reduced pipeline pressure (300 psi down to 25 psi)
- Reduction in overall treating costs
- Cleaner water

DM-3657 was specifically designed for use in heavier gravity crudes. It is intended for continuous injection into emulsions prior to the separation vessels. The components in DM-3657 are formulated to separate water from oil, giving distinct interfaces and improving water quality.

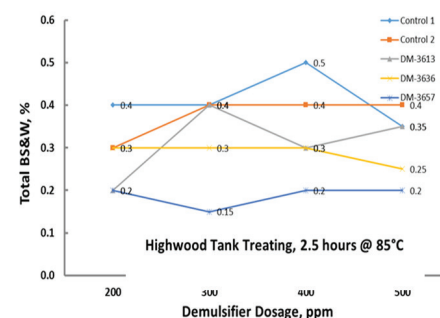
Area
Nipisi Region

Formation
Clearwater

PureChem Product
DM-3657



Bottle testing that was conducted at PureChem's Slave Lake Laboratory.



Comparison of total BS&W for PureChem demulsifiers tested against the two control demulsifiers.