

Cold Treatment Demulsifier Works Great With Heat

Problem

Oil recyclers have to address persistent and unavoidable variations in the feed stream. A demulsifier is called for to perform consistently, economically and in a timely manner. It was also hoped that the formulation would not cause organics to be removed into the water phase.

Solution

A well-established cold-treatment demulsifier, ECO* 80, was found to work extremely well at temperatures between 160° -180° F. Lab tests showed rapid and complete water drop with a sharp interface and reasonably clear, orange-red water. The water was no worse than gravity-settled water; a marked improvement over other demulsifiers on the market.

Results

Plant I

Reclaimer in the West treats 18,000 gallon batches at 180° F using 27 gallons ECO 80 mixed by pump-circulation. After 1-2 days settling, the oil is consistently treated from 7-28% water down to <1% BS&W.

Plant II

Reclaimer in the Northwest treats 15,000 gallon batches at 160° F using 30 gallon ECO 80, mixed by aeration. After overnight settling the oil is treated from 4-20% water down to a consistent 0.5-1% BS&W.

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