



Single Demulsifier Treats Many Types of Waste Oil

Problem

A waste oil reclaimer in the Southeast was treating a wide range of automotive and industrial oily wastes, but was unable to recover the high-quality oil demanded by his customers. Extended heating and use of non-proprietary chemicals produced excessive sludge, proved costly, and failed to yield the desired products.

Solution

Tests were conducted on several samples of oil composited from waste streams of motor oil, fuel oil, and industrial sludge. It was determined that RECOVEROL* ECO 6N50 at 1500 ppm consistently removed water and solids to less than 1% BS&W at 180oF.

Results

5000-gallon batches of waste oil were heated to 180°F and treated with 6 to 7 gallons of ECO 6N50. The chemical was added via pump circulation for 30 to 60 minutes, then settled overnight. The BS&W was reduced from 15-20% to 0.3-1%.

Larger batches of 30,000 gallons were heated in a horizontal tank equipped with heating coils and a flash-mixer. 35 to 45 gallons of ECO 6N50 were mixed using blade propellers and allowed to settle for 1-2 days. BS&W was reduced to less than 0.5%.

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