

Consistent Demulsifier Treatment for Variable Waste Oils

Problem

An oil recycler in the West receives oily wastes from several hundred generators, averaging at 80% crankcase oil, 20% industrial and fuel oils. A demulsifier was needed to handle the anticipated variability in oil type, viscosity, BS&W and pH of the emulsified water. The treatment had to be fast, reliable and complete. A higher oil quality would enable the customer to market his oil at a higher price, not generally attained by his competitors.

Solution

RECOVEROL* ECO 91 had just been tailor-formulated for crankcase oil. It demonstrated the favorable properties of speed of action, good solids, as well as water, removal, and did not adversely affect the quality (disposal or treatability) of the separated water.

Results

The client now treats 20,000 gallon batches, using 30-40 gallons of ECO 91. After overnight settling, as the oil cools down from 180° F to 160° F, BS&W is always less than 0.8%, and averages 0.5% (trace water and solids/insoluble grease). Less than 3% by volume of interface is generated, which is accumulated for further settling.

The client reports an amazing 97-98% success rate, and sells the clean oil in the bunker fuel market.

P.S. ECO 91 is also finding success in de-ashing, and in treating low-flash fuel tank sludge, where it yields high oil recovery and quality, leaving behind deoiled solids for dewatering.

**Trademark of Emulsions Control Inc.*

Emulsions Control, Inc. 925 Hale Place, A7; Chula Vista, CA 91914; Tel (619) 656-8899; Fax: (619) 656-8895