



Dehydration of Waste Oil Reduces Heating Costs for Re-refiner

Problem

A West Coast refiner which offers a "laundering" service for hydraulic oils, gear oils, etc., in a distillation process, was faced with high energy costs and reduced through-put as a result of the high water content of the oils. The refiner found it necessary to effectively dehydrate the oil prior to re-refining.

Solution

RECOVEROL ECO* 14 at a concentration of 2000 ppm was found to give rapid and almost complete dehydration at 160°F. Additionally, a significant reduction on solids content was observed.

Results

The client now regularly treats 5000-gallon batches of the waste oil. Ten gallons of ECO 14 are added during filling of the treatment tank, and further mixed by air agitation while heating to 160°F.

In many cases oil is dehydrated within one hour. In the case of gear oils containing high levels of metal fines, the oil is heated for 4-8 hours and settled overnight without further heating, to achieve the same extent of dehydration. Significant savings in energy costs are thus consistently realized through the use of ECO 14.

Success Hint

The customer is now in a position to identify particular batches of high water or tightly emulsified waste oils and can treat them with the optimum amount of chemical.

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