Information Bulletin No. 3

Evaluation of RECOVEROL* Demulsifiers For Waste Oil

Introduction

The business of treating and recycling waste oil need not be and exact science, but it does not have to be guesswork or hit-and-miss.

In a highly competitive market, oil quality, extent of recovery and profitability may easily be improved by performing certain basic tests, which require little training and may be completed in a matter of minutes.

Recommended Procedure

ECI proposes the following procedure that has been developed over many years of practical experience in the treatment of waste oil.

1. From a cargo of oil, sample top and bottom layers. Determine water content by distillation and solids content by reading centrifuge residues.

2. Select the optimum RECOVEROL demulsifier and concentration outlined in Information Bulletin No. 6 "RECOVEROL Demulsifiers for Waste Lube Oil".

3. ECO demulsifiers may be used in one of four ways. You, the operator, can decide which best suits your particular system:

   A. Heat the oil, add the required amount of chemical, and mix by pump-around, paddle-mixing, etc.

   B. Inject the chemical into the cold oil while pumping to the treatment tank, then heat and settle. This is suitable for less viscous emulsions.

   C. Inject the chemical into the preheated oil while pumping to a settling tank. This is the preferred method of emulsion treatment. See also Information Bulletin No. 7 entitles "How to Mix RECOVEROL Demulsifiers".

   D. Where a centrifuge is available, the chemical may be injected into the hot oil, just upstream of the centrifuge. Alternatively, some of the chemical may be used batch-wise for primary dehydration, and the remaining upstream of the centrifuge for the final "polishing". This process improves centrifuge performance and minimizes shutdown and cleaning.

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