



Chemical Dehydration of Hydraulic Oil Enhances Purification

Problem

A West Coast mobile oil reclamation company was faced with high levels of emulsified water in the customer's hydraulic oil tanks. The process of vacuum distillation and filtration was thus rendered tedious and uneconomical.

Solution

RECOVEROL* ECO 5DH was tested in the lab and found to break most hydraulic oil emulsions (5-20% water) at 2000-3000 ppm. No heat was required, and the recovered oil analyzed at less than 0.5% water and solids.

The knockout water was relatively clean, and carried the minimum amount of oil.

Results

The client now routinely mixes ECO 5DH into the wet hydraulic oil by pump circulation and allows 1-2 days settling in the 500-1000 gallon tank.

The dehydrated oil, which is typically slightly hazy yellow or orange in color, is then polished to a high quality in the mobile purification unit.

Energy and cartridge replacement costs are kept to a minimum for a more consistent and profitable operation. Typical oil content: 25-100 ppm.

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