



Water Demulsifier Helps Antifreeze Recycling Facility

Problem

An antifreeze recycling company in the West was faced with the problem of oil being entrained in their incoming waste glycol/water streams. The emulsified oil resisted physical separation methods, and adversely affected their processing of the glycol.

Solution

ECA* 21, a reverse demulsifier with a unique composition, was found to destabilize the oil rapidly at concentrations as low as 500-1000 ppm. The oily floc created was readily filterable from a clear glycol/water mixture.

Results

The customer now treats 4000-gallon batches by adding 1/2-1 gallon of ECA 21 per 1000 gallon of the brownish, contaminated antifreeze (oil content 1000-5000 ppm). The demulsifier is mixed at the pump during transfer to a rotary vacuum filter.

The resultant product is a clear yellow or green liquid, typically analyzing at less than 10 ppm oil & grease. Further processing of the glycol-water mixture is further enhanced by a corresponding reduction of soluble salts by up to 40%.

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