



## INDUSTRIAL FLUID SYSTEMS

**The application was simple, process 12,000 gallons a day of oily water, separate the 350 gallons of hydraulic oil and make it clean enough to reuse in the presses.**

### System Requirements

Process 10,000 to 15,000 gallons / day of oily water.

Discharge water to second holding tank for additional clarification.

Collect the hydraulic oil and feed it to the oil purification system.

Automatically process hydraulic oil removing water and solids.

Monitor oil quality in the micro filtration cell for moisture and particles

### Equipment Provided

Oil/Water separator w/ 1,500 gallon settling tank

High Speed Disc Centrifuge

Ultra-Vac dehydrator

Micro filtration cell with particle counter/ moisture sensor

PLC controls

Industrial Piping and Wiring to NEMA Standards

Complete Documentation with Spare Parts List

Plant Layout in AutoCAD

One Year Warranty

Runoff & Training at the Customer Plant

Industrial Fluid Systems developed a process and then built a system that achieved this goal. It consisted of an oil/water separator, 1,500 gallon settling tank, high speed centrifuge, vacuum dehydrator, micro filtration cell and (2) integrated processing tanks. The final phase of the oil purification process includes a particle counter/moisture sensor to insure oil quality. The 300 to 350 gallons/day of clean, dry hydraulic oil that is pumped into a 1,000 gallon storage tank.

The water phase is discharged from the oil/water separator to a second 4,000 gallon settling tank for additional clarification. This water is discharged to the city's waste water treatment plant. A monitor on the discharge port insures oil is not being discharged to drain.



Prior to quoting this system an application study was done to establish the processing rate, equipment sizing, and oil quality that could be obtained. This study confirmed the process and the system cost. Payback was less than one year.

IFS has 20 years of experience building turnkey systems for:

Coolant Recycling

Wash Water Recycling

Cutting Oil Recycling

Oil Purification Systems

Waste Water Processing

Waste Oil Processing

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Contact us today for more information.