

# WHY FILTER?

## FLUID FILTERING:

Can remove contaminants and extend the life of system components

Leads to fewer breakdowns in your hydraulic systems



## CLEANLINESS PERSPECTIVE:

DIRT PRODUCED PER YEAR IN A 32GPM HYDRAULIC SYSTEM

**630 lbs.** with ISO 23 / 21 / 18

**20 lbs.** with ISO 18 / 16 / 13

**97%**  
LESS DIRT  
PRODUCED  
WITH  
REDUCED  
ISO LEVELS



## CONTACT US



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(press 5 for repairs)



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## HYDRAULIC FLUID CONDITIONING

**FILTER CARTS & DEHYDRATORS**



## DID YOU KNOW?

- 70-90% of all hydraulic system failures are caused by contaminants in the fluid
- High contamination levels can sharply decrease the operating efficiency and life of a hydraulic system

## L&H CAN HELP!

- We offer products for testing the hydraulic fluid in your machines
- Fluid conditioning equipment available for rent
- Get start-up training and assistance with our rental machines
- Lease to own option

# HYDRAULIC FLUID CONDITIONING

## FILTER CARTS & DEHYDRATORS

### HYDRAULIC FLUID CONTAMINATION

- Any substance that is foreign to a fluid system and degrades its optimum performance
- Can exist as a gas, liquid, or solid
- Accelerates component wear, resulting in seizure of parts, higher fluid temperatures, leakage, and loss of control
- Decreases system's service life and efficiency
- Accelerates oxidation of the fluid and causes chemical breakdown of additives

### CAUSES OF CONTAMINATION

- New systems often have contaminants left behind from manufacturing and assembly operations
- Inefficient air breathers and worn cylinder rod seals during normal operation
- Airborne contaminants entering during routine servicing and maintenance
- Friction and heat internally generating contaminants

### PORTABLE SERVICE UNITS

- Easily transported
- Detects amount of particulate and water contamination
- Integrated pump built in – samples can be taken regardless of whether they're in the pressure line or from a reservoir/ tote
- Displays a 3 digit ISO contamination level as well as water content as percent saturation
- Data can be obtained using a USB drive and stored to a PC device



### STANDARD FILTER CARTS

- Can be used for both fluid transfer and kidney loop filtration
- 14 GPM flow rate with dual elements
- Can use 2 stage particulate filtration or water removal then particulate 115 VAC power allows plug into wall outlet
- Micron sizes available in 3, 5, 10, 20 or water removal element
- Viscosity ratings up to 1000 SUS



### AUTOMATIC FILTER CARTS

- Same components as standard cart with integrated particle counter and water sensor
- 9 GPM flow rate
- Can set target ISO level and cart will filter until getting 5 consecutive readings at that level, then automatically shut off
- Can obtain data from cart via USB drive



### SMALL DEHYDRATORS

- Designed for use to remove both free and dissolved water from hydraulic fluids
- Automatic operation – set target fluid conditions and cart runs until conditions met then shuts off

- 1.5 GPM flow rate
- 110 VAC power supply allows for use in wall outlet
- 1000 SUS max fluid viscosity
- 1" JIC line connections



### LARGE DEHYDRATORS

- Designed for use to remove both free and dissolved water from hydraulic fluids
- Automatic operation – set target fluid conditions and cart runs until conditions met then shuts off

- 2 sizes - 15 GPM or 22 GPM flow rates available
- 460 VAC power supply
- 2500 SUS max fluid viscosity
- 1.5" JIC line connections

