



“A Simplified Study In Filtration” - Part 7 of 10

Last issue we talked about how new oil needs to be filtered when introduced into a system. Filtration needs to be taken seriously when it comes to any system. Whether the system is a \$15 million one or a \$100 one, it will eventually be destroyed without adequate and properly maintained filtration. Not only must there be sufficient filtration but there must also be proper servicing and maintenance, because if the filtration breaks down, the system is going to break down. What about sizing a filter to the system? Here are some points to consider.....

III. SIZING THE FILTER TO THE SYSTEM

With filtration being as important as it is to the life of the entire system and to the work the system is performing, proper filter sizing must be taken into consideration first and foremost.

1. What is the flow rate (gallons per minute)?
2. What is the viscosity of the fluid?
3. What is the fluid?
4. What is the line size required?
5. What is the type of media needed?
6. What type of pump is in the system (vane, gear, or piston, etc)?
7. Will the system operate continuously, intermittently, or infrequently?
8. What temperature will the system be operating at (hot, warm, cool, very cold)?
9. Is the system indoors or outdoors?
10. What micron or mesh is required?

These are all good questions. If you are fortunate enough to get accurate answers to all of them, you can generally make a solid recommendation of what type and size filter will be needed. Next time we will talk suction straining specifics. Always remember, if you need assistance, talk to a filter specialist. Contact us anytime.



How clean is the fluid in your system? Want to clean it up? Want to introduce fluid into your system? Clean fluids make for a smooth running, efficient system! One of the wisest investments you can make is a portable filter transfer system....a filter cart! You

can filter the fluids in your existing system to the levels required. You can filter new fluids being introduced into your system. You can even add a 3rd stage water removal filter if needed. Recycling and polishing the fluid will keep your system running at peak efficiency. We have many different options. Give us a call or e-mail us to find out all the different options we have available to you and can have installed on a filter cart. Talk to a filtration specialist!

Let's go to school! How bad can a few questions about hydraulics be?



1. T or F? Static energy is energy in motion.
2. T or F? One gallon of fluid is 321 cu. In.
3. In a hydraulic system, _____.
 - A. pressure provides force.
 - B. Flow rate provides speed
 - C. Both A and B. D. Neither A nor B
4. _____ is the distance a fluid travels in a specified time.
5. T or F? Water that mixes with lubricants increases the effectiveness of the lubricant.

Answers: 1. False; 2. False; 3. C; 4. velocity; 5. False

P.O. Box 1749, Ann Arbor, MI 48103

phone (800)237-1165 or (734)665-8777; fax (800)252-1730 or (734)665-4332

E-mail: flowezy@flowezyfilters.com Web site: www.flowezyfilters.com