



Firesafe™ PoE Hydraulic Fluid Conversion

Changing from Mineral Base Oil

Flushing and Draining Procedures

1. If there is concern of compatibility of two products, submit 4-oz sample to laboratory for complete analysis.
2. Completely drain and clean hydraulic reservoir. Draining and cleaning procedures will go faster if done when oil is warm. In general, Firesafe™ PoE is compatible with most mineral base hydraulic oils, but may reduce the effectiveness of the fire resistance.
3. Drain all associated pieces of equipment within a system to the best of your ability, paying close attention to reducing residual oil within the system. This includes, but is not limited to, the following: piping, hoses, valve systems, manifolds, accumulators, motors, cylinders, coolers, and pumps.
4. Drain all filter reservoirs; filters will be changed after the final flush.
5. Assemble and seal the hydraulic system, and circulate the minimum amount of Firesafe PoE to flush. Run system and actuate valves to provide a flush of the new oil to all parts.
6. Repeat steps 2-5. When system is completely flushed, fill with new Firesafe PoE.
7. Replace old filter elements with the proper new filter elements.
8. After a week of run time, pull samples and submit them for laboratory testing.

Alternative Flushing (Return Line Removal)

1. If there is concern of compatibility of two products, submit 4-oz sample to laboratory for complete analysis.
2. Completely drain and clean hydraulic reservoir. Draining and cleaning procedures will go faster if done when oil is warm. In general, Firesafe PoE is compatible with most mineral base hydraulic oils, but may reduce the effectiveness of the fire resistance.
3. Drain all associated pieces of equipment within a system to the best of your ability, paying close attention to reducing residual oil within the system. This includes, but is not limited to the following: piping, hoses, valve systems, manifolds, accumulators, motors, cylinders, coolers, and pumps.
4. Remove the system return line and redirect into empty storage tank.
5. Fill reservoir with new Firesafe PoE and start system.
6. Flush adequate amount of fluid through the system; beware not to overflow used oil storage.
7. Reconnect the drain line and top off hydraulic system with Firesafe PoE.
8. Replace old filter elements with the proper new filter elements.
9. After a week of run time, pull samples and submit them for laboratory testing.



Firesafe™ PoE Hydraulic Fluid Conversion

Changing from Non-Compatible Products*

*Water / Phosphate-based fluids

Flushing & Draining Procedures

1. Compatibility of two products can be tested. To do so, please submit 4-oz sample to laboratory for complete analysis. Some products are known to be incompatible, so testing is not necessary. Please consult your LE consultant if you have questions.
2. Completely drain and clean hydraulic reservoir. Draining and cleaning procedures will go faster if done when oil is warm.
3. Drain all associated pieces of equipment within a system to the best of your ability, paying close attention to reducing residual oil within the system. This includes, but is not limited to, the following: piping, hoses, valve systems, manifolds, accumulators, motors, cylinders, coolers, and pumps.
4. Drain all filter reservoirs and replace filters. Clean pump inlet strainers.
5. Assemble and seal the hydraulic system, and circulate the minimum amount of Firesafe PoE to flush. Run system and actuate valves to provide a flush of the new oil to all parts.
6. Repeat steps 2-5. When system is completely flushed, fill with new Firesafe PoE.
7. Replace old filter elements with the proper new filter elements. Make sure to have extra filters on hand because interrupting any system usually produces extra particulates.
8. After a week of run time, pull samples and submit them for laboratory testing.

Alternative Flushing (Return Line Removal)

1. Compatibility of two products can be tested. To do so, please submit 4-oz sample to laboratory for complete analysis. Some products are known to be incompatible, so testing is not necessary. Please consult your LE consultant if you have questions.
2. Completely drain and clean hydraulic reservoir. Draining and cleaning procedures will go faster if done when oil is warm.
3. Drain all filter reservoirs and replace filters. Clean pump inlet strainers.
4. Drain all associated pieces of equipment within a system to the best of your ability, paying close attention to reducing the residual oil within the system. This includes, but is not limited to, the following: piping, hoses, valve systems, manifolds, accumulators, motors, cylinders, coolers, and pumps.
5. Remove system return line and redirect into empty storage tank.
6. Fill reservoir with new Firesafe PoE and start system to circulate at low pressure.
7. Flush adequate amount of fluid through the system. Beware not to overflow used oil storage.
8. Reconnect drain line and top off hydraulic system with Firesafe PoE.
9. Replace old filter elements with the proper new filter elements. Make sure to have extra filters on hand because interrupting any system usually produces extra particulates.
10. After a week of run time, pull samples and submit them for laboratory testing.