

GRIFLUBE® CLEAN FLUSH

GRIFLUBE® CLEAN FLUSH is a unique blend of petroleum based fluids and additives to not only clean the system but also to help with the removal of any remaining water in the operating lines, valves, accumulators that may still be present after the full drain of water glycol from hydraulic fluid system. Great care should be provided draining the entire system from reservoir, accumulators, lines, pump and valves. The **GRIFLUBE® CLEAN FLUSH** is designed to capture any remaining residue of water that might still be present in a closed loop system. This is to assist in eliminating as much of the water in the system as possible.

A recommended procedure is on the next page.

DISPOSAL:

H&G is committed to making the disposal of the used **GRIFLUBE® CLEAN FLUSH** easy for you during this transformation from water glycol to **GRIFLUBE® BIO-SYN**. Follow proper procedures of using **GRIFLUBE® CLEAN FLUSH** by draining the **GRIFLUBE® CLEAN FLUSH** back into the tote or drums that the product arrived in, additional clean packaging might also be necessary.

H&G can dispose of this material for no charge to our customer of the used **GRIFLUBE® CLEAN FLUSH** at our Indianapolis location; we ask that our customer pay for the freight.

Any used waster glycol must be disposed of by customer in accordance to the water glycol SDS.

MONITORING YOUR HYDRAULIC SYSTEM:

Hill and Griffith will work with you to monitor your hydraulic fluid systems and optimize your maintenance intervals. Our periodic oil sampling allows for early discovery of:

- Water
- Lubricant Quality
- Contamination levels
- Particulates



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Procedure: To replace water glycol or petroleum oil to GRIFLUBE®BIO-SYN fluid.

1. While the current material is at operating temperature, completely drain the system, paying close attention to the reservoir, all lines, cylinders, accumulators, filter housings or any area of fluid accumulation. Also, replace the in-line filters.
2. With a lint free rag, clean the reservoir of any contaminate.
3. Add **GRIFLUBE® CLEAN FLUSH** to reservoir to 50-60% full. Run system for a minimum of 1 hour. Stroke valves frequently to ensure a thorough flush.
4. Drain **GRIFLUBE® CLEAN FLUSH** as hot and as quickly as possible into a clean tote or the drums that the product came in. Replace filters and inspect reservoir. Follow step 1 and 2.
5. Fill reservoir to approximately 75% with the **GRIFLUBE®BIO-SYN** to be used. Bleed/vent the pump. If the pump has a bypass, it should be wide open. Run the pump for 15 seconds, then stop and let sit for 30 seconds. Repeat this procedure a few times to prime the pump.
6. Run the pump for a minute with bypass or pressure relief wide open. Stop the pump and let sit for a minute. Close the bypass and permit the pump to operate loaded for no more than 5 minutes. Allow the relief valve to lift to confirm that it is flushed as well. Do not operate the actuators at this time. Stop the pump and let system sit for 5 minutes.
7. Start the pump and operate the actuators one at a time, allowing the fluid to return to the reservoir before moving to the next actuator. After operating the final actuator, shut the system down. Keep an eye on the fluid level in the reservoir. If the level drops below 25%, add fluid and fill to 50 percent.
8. Run the system for five-minute intervals. At each shutdown, bleed the air from the system. Pay close attention to the system sounds to determine if the pump is cavitating.
9. Run the system for 30 minutes to bring the fluid to a normal operating temperature. Shutdown the system and replace filters. Inspect the reservoir for obvious signs of cross-contamination. If any indication of cross-contamination is present, drain and flush the system again with **GRIFLUBE®BIO-SYN**.
10. After six hours of operation, shut the system down, inspect filters, and change if needed. Sample fluid for testing.
11. Recommend sampling every month for first three months and then evaluate on frequency.

PACKAGING:

Bulk Tank
Tote
Drums
Pails