

## Hydraulic Tank Breather

### General

The hydraulic tank is equipped with a breather assembly with an integrated check valve, used to pressurize the hydraulic tank to approximately 5 psi. See Figure 1. This positive pressure helps to prevent pump cavitation, and the filter in the breather assembly keeps incoming air, and your hydraulic oil, clean.

A petcock is mounted next to the breather assembly to relieve the hydraulic tank pressure whenever service of the hydraulic system is necessary.



### **WARNING**

**Pressurized and/or hot oil hazard.**

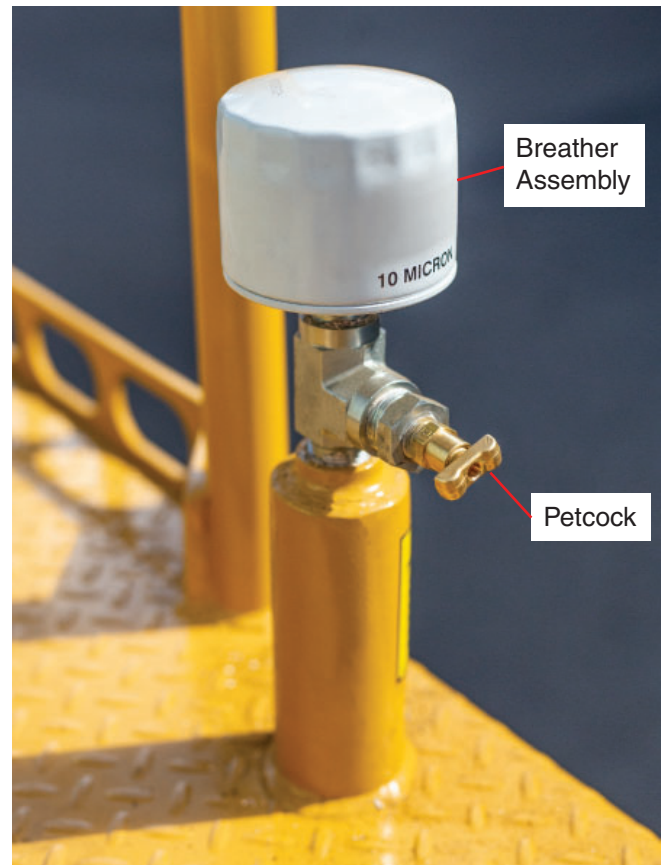
**Make sure to open the petcock prior to changing any hydraulic filters, prior to filling or draining the hydraulic tank, and prior to opening the service cover for the return filters. Failure to relieve pressure in the hydraulic tank may result in severe injury.**



### **CAUTION**

**When service work is done, make sure to close the petcock prior to operating the machine.**

Periodic maintenance of the hydraulic tank breather assembly will ensure that your hydraulic system operates at peak efficiency.



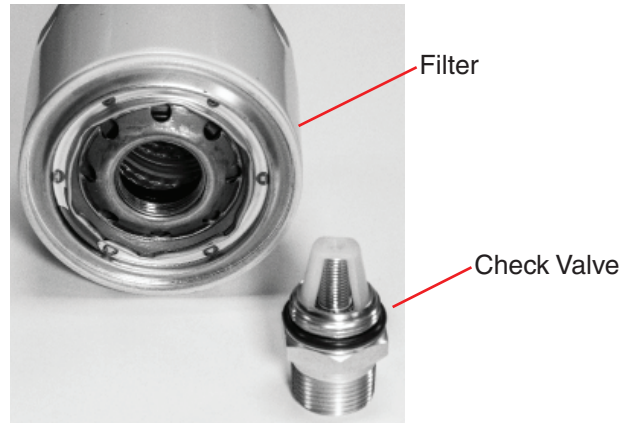
*Figure 1 Typical Hydraulic Tank Breather Installation*

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## Replacement

The hydraulic tank breather assembly filter should be replaced every 6 months, 1000 hours, or as required, whichever occurs first.

1. Put the machine in the service position (see Section 10-1).
2. Shut down the machine, and employ lockout/tagout procedures.
3. Relieve pressure in the tank by opening the petcock just under the breather.
4. Using a wrench, remove the breather assembly.
5. Remove the check valve. See Figure 2. Discard the old filter in accordance with local regulations.
6. Clean the check valve with a non-corrosive solvent.
7. Assemble the cleaned check valve with a new filter element.
8. Reinstall the breather assembly, close the petcock, and ensure that it operates normally during operation.



*Figure 2 Breather Assembly*