

Zedi SilverJack Bulletin: Low Hydraulic Oil Level Alarm on Zedi SilverJack 8000 Systems

If a Low Hydraulic Oil Level Alarm has been activated on your Zedi SilverJack 8000 (SJ8000) controller, follow these steps to fill the hydraulic oil tank.

1. Bleed oil from the N2 vessel back to the hydraulic tank so that the N2 vessel's low level switch activates. This is the maximum amount of oil that should ever return to the hydraulic tank from the N2 vessel.
2. Assess the level of oil in the hydraulic tank (while the low level switch is activated as per step 1). If the level of oil is lower than 6" to 8" from the top of the tank, fill the tank with more hydraulic oil so that the level reaches 6" to 8" from the top of the tank. This 6" to 8" buffer allows for the piston accumulator to drain its hydraulic oil back to tank when required without overflowing the hydraulic tank.



Only fill hydraulic oil in the hydraulic tank when the oil level in the N2 vessel is at the low level switch. This ensures that the hydraulic tank does not overflow during an N2 Flush.

By following these steps you determine if hydraulic oil should be added or if N2 gas should be added. If you simply add oil to the hydraulic tank without this procedure validating the amount of oil in the system, then you may overflow the hydraulic tank during normal operation.

Even if your N2 automation is not enabled, hydraulic oil could potentially enter the N2 vessel by the following ways.

- Small portions of oil can pass by the piston inside the piston accumulator thus entering the N2 vessel during normal operation.
- The fill and flush solenoid valves are calibrated so that some hydraulic oil passes through during normal operation (measured in drops per minute). Unless there are manual isolation valves inside the powerpack that are closed, small amounts of oil may pass through these solenoid valves and into the N2 vessel even when they are not activated.