



#TechTipTuesday

MAINTENANCE STEPS: Improving the life of your hydraulic system

Preventive maintenance is critical to ensure the life of your hydraulic system. Primary maintenance areas include oil cleanliness, hydraulic seal integrity, and lubrication of moving components.

We recommend the following maintenance procedures in these key areas:

PREVENTIVE MAINTENANCE PROCEDURE FOR AIR OIL SYSTEMS

Change the oil by following these steps:

1. With the legs fully extended and for master valve in “down park,” drain the retract oil tank by removing the nylon line at the bottom of the tank or plug, if equipped. Reconnect and refill to the fill-port level with up to 12 quarts of the approved fluid.
2. Connect the air supply to the system and fully retract the legs, leaving the handle in the “up travel” position.
3. Disconnect the air supply from the system.
4. Disconnect the top hydraulic line at each leg and put the ends into a container to catch the oil.
5. Reconnect the air supply to the system.
6. Very slowly, move the master valve handle toward the “down park” position until oil starts coming out of the lines. Leave it in this position until all oil has been exhausted from the main tank.
7. Move the master valve handle to the “up travel” position and reconnect lines to the leg.
8. Remove the filler cap from the end of the fill pipe on the main oil tank, and fill it with up to 17 quarts of approved fluid.
9. Operate the landing gear for at least two full cycles (complete leg strokes) to bleed air from the system.

LUBRICATION PROCEDURE FOR AIR OIL SYSTEMS

At approximately six-month intervals, grease the stabilization legs:

1. Inject grease into the vent hole on the check valve using a rubber tip adapter (“Lubrimatic” code 11860).
2. Inject NLGI Grade “00” or “0” grease into the leg fitting near the bottom of the cylinder until grease is observed exiting near the shoe.
3. When all lubrication is complete, extend and retract the legs a full cycle.

PREVENTIVE MAINTENANCE PROCEDURE FOR ELECTRIC OIL SYSTEMS

1. Using the sight gauge, check the fluid level every two months. Add fluid as needed.
2. Drain hydraulic fluid and change the oil filter every 12 months. With legs retracted, drain the reservoir fluid using the drain plug on the bottom of the reservoir. Change the filter (P/N 06-1014). Remove the fill plug, and add the specified fluid until the oil level reaches the top of the sight gauge, then reinstall the fill plug.

LUBRICATION PROCEDURE FOR ELECTRIC OIL SYSTEMS

Grease the legs every six months with NLGI Grade “00” or “0” grease. Pump grease until grease is observed exiting the lower area close to the shoe.

*Note that this process applies only to Power-Packer products manufactured in North America.

Questions about the preventive maintenance process for your stabilization legs? Contact our Customer Service team at info@powerpacker.com for more information.

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