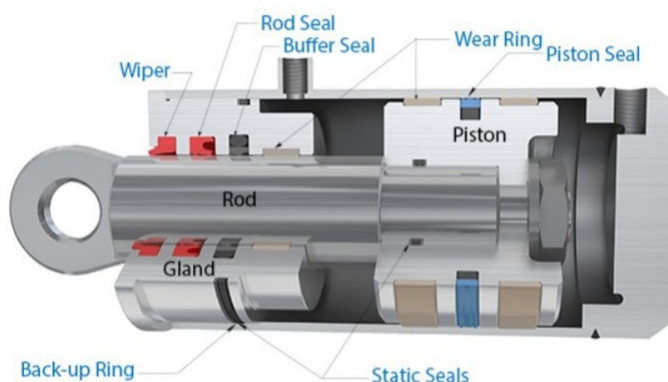


Cylinder Maintenance - Part 2

Remember when we said the last Tech Tip was just the tip of the iceberg when it comes to cylinders and there are many factors that can impact cylinder performance? It's such an important topic, we're talking about it again!

This time we're covering cylinder resealing and the effects of decompression spikes.

Cylinder resealing is critical for getting the maximum life out of your hydraulics.



Shear and demolition attachment cylinders need to be resealed at:

2 years or 4000 hours, whichever occurs first, the first time

18 months or 3000 hours for all following reseals

Grapple cylinders need to be resealed at **2000 hours**.

In **severe-duty applications** or if operating an attachment **more than 10 hours per day**, these intervals need to be reduced.

The **monthly** time frame is as critical as the **hourly** time frame.

Decompression spikes cause a couple issues. One is damage to the head-to-barrel seal, which washes out over time and results in a head-to-barrel leak.

Decompression spikes from incorrect excavator plumbing can also cause problems over time. If you are seeing issues with spiking in the circuit while reversing cylinder direction, or when the cylinder is fully retracted against relief and then closed, give us a call. We are happy to help you diagnose the problem.



Most often, the culprit is the bucket/stick circuit connected to the attachment is not oriented correctly to the bore-to-bore of the attachment and excavator circuit.

Another fix may be slowing the excavator spool shift a bit. This can usually be accomplished by installing flow controls in a hydraulic piloted circuit or going into the excavator computer and slowing spool shift and pump initiation parameters in an electronically controlled circuit.

If your attachment cylinder is not operating properly, contact Tim at 218-349-5755, talseth@genesisattachments.com