



Managing Heat

Extreme heat can be difficult to manage and, in many cases, be quite dangerous. Individual training and safety programs may address mitigation of heat stress, such as cramping, exhaustion, heat stroke and dehydration, but what about your equipment? How does it fare in summer temperatures, running full throttle, for extended periods of the workday?



We already know the scope of work being performed on each jobsite can vary greatly. Repetition, abrasion, air quality, operator aptitude, among other things, can have a significant effect on your daily equipment care routine.

In North America, we also contend with wild swings in ambient air temperature. Running an excavator and work tool combination in the middle of January, in Ohio, is not the same as running it in San Antonio, TX, in August. Cooling system capacity, hydraulic system efficiency, total duty cycle, or the risk of fire, may come into play when trying to navigate these challenges.

Genesis attachments are designed to run at the same hydraulic temperatures as the carrier, assuming high quality oil is being used with adequate filtration, along with proper oil cooling. Limiting the use of devices that cause restriction, such as quick couplers, restrictive adaptor fittings, or hydraulic lines that are too small, will also help everything flow smoothly without creating additional heat.



Keeping oil coolers clean is also extremely important. Dust build-up, inoperable fans, engine issues, cooler obstruction and plugged radiator cores are all things that will wreak havoc on system life.

In some cases, adding a hot-weather package may also be needed. These “tropical” kits may utilize an additional heat exchanger or a circulation pump to force more oil through the cooler when it would otherwise be static.

Even the best hydraulic systems may require help if they can't keep up with the heat of summer. Always follow the OEM instructions for maintaining these items since keeping them in good order will help ensure everything is running at peak efficiency. Your equipment will thank you.

If you have any questions about keeping shears and processors cool when the heat is on, contact Tim, talseth@genesisattachments.com, 218-349-5755, or Loren, llagesse@genesisattachments.com, 715-919-8316.

