



Drops bearing temperatures by 20°F

The setup

The Downs harvest season of 2018 was looking to be a little shorthanded. An off the cuff comment about the need for another operator to their local Schaeffer representative soon had them the operator they needed for the coming pea and wheat harvest.

The pair of 7010 Case combines sitting in the yard did not go unnoticed, and before long a grease test was under way with the leading Case IH Grease versus Schaeffer's new SynForce™ Green Grease. The chopper bearing was selected as the best bearing to test because of the notoriously hot temperatures they run at.

The test

The test started with taking a thermal picture of the bearing during a quick break in the cutting day. Temperatures were found to be in the 180s °F, then SynForce™ Green was slowly added at a few pumps a day so as not to over grease the bearing. After a week of a couple pumps a day, the bearing was reimaged to determine if the grease was reducing temperatures. The bearing was found to be running much cooler at low 160s °F for a temperature.

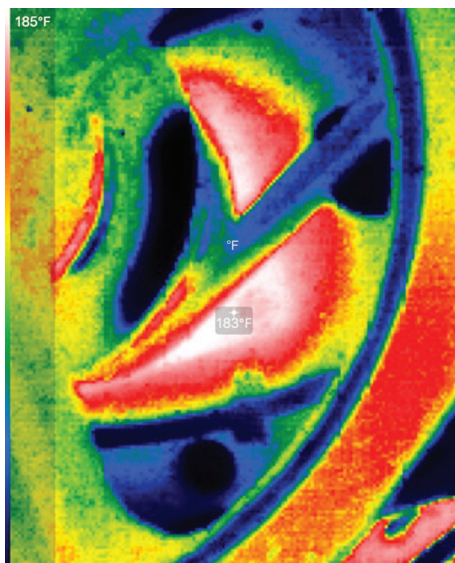
"Anything that will help those bearings run cooler is worth using," said Kevin Downs after looking at the comparison in temperatures. "No one wants to replace a \$600 bearing."

Results

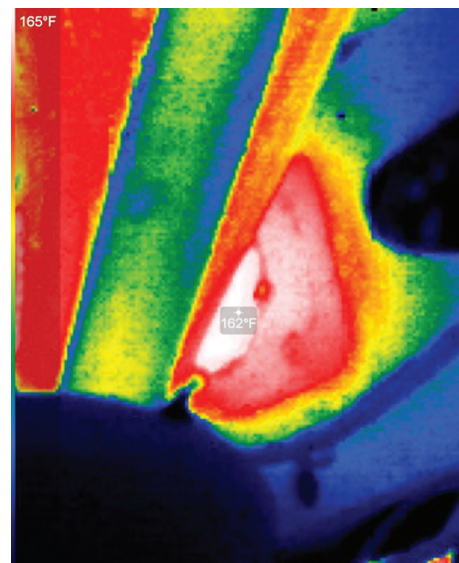
According to Noria and SKF, a bearing manufacturer, the housing temperature of a bearing is 15-25 °F cooler than the actual bearing temperature.

Furthermore, any bearing running over 180 °F is considered to be running too hot. Schaeffer's SynForce™ Green Grease took this bearing from cautionary temperatures to normal operating temperatures.

The Downs have since started using the SynForce™ Green in their equipment and are hooked on Schaeffer's Moly 5th Wheel Lube.



Chopper bearing with Case IH grease



Chopper bearing with Schaeffer's SynForce™ Green