



MAG-SHIELDS® Improve Oil Sample Results in CAT 797F After Brake Failure

The Problem

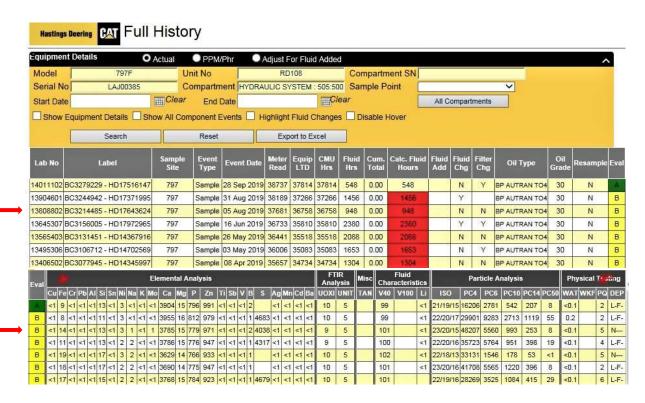
A CAT 797F off-road truck operated by an Australian mining company had a brake failure. The operator of the truck contacted BAY6 Solutions for a Mag-Shield solution. The operator had failures of this nature before and was aware that follow-on failures were common due to the difficulty in completely removing all contamination from the system.

The Solution

BAY6 Solutions provided a Mag-Shield filter. The operator installed it during repairs performed on August 5th (see chart). The Mag-Shield system is designed to remove ferrous particles from the fluid flow. This prevents the abrasive particles from continuing to circulate within the system and cause additional damage, such as scoring machined surfaces in pumps. The system was flushed according to manufacturer recommended procedures and the unit was returned to service.

The Results

During the oil sampling period after Mag-Shield installation (after 1456 hours), an immediate drop in iron particulates was observed, as was an immediate reduction in PQ levels. At the next oil sampling period, the drop in iron and PQ levels was maintained and the fluid evaluation returned with the next highest letter grade. Additionally, subsequent pump failures that were common after this type of failure and had been expected by site engineering were avoided. The success of Mag-Shield in this application reduced unit downtime and prevented expensive additional repairs.



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