

MINING APPLICATIONS

Haul Trucks Electric Drive





HISTORY

A Number of Mining Haul truck manufacturers utilise GE Electric wheel motors on the rear of their Haul truck range. Each truck has two wheel motors which contain 40 – 50 litres of synthetic final drive gear oil between ranging between 460 – 680 cSt @ 40°C depending on the model and climate. Preventive maintenance requirements are for the final drive oil to be kidney looped with off line filtration during service. This procedure only provides temporary clean up and protection of wheel components, with contamination levels rising during normal operation. As a result, contamination levels with significant wear debris can rise to unacceptable levels between PM intervals which results in wearing of components and shortened life of the synthetic lubricant.

Clean oil, smooth operation.

How does your oil cleanliness gear up?



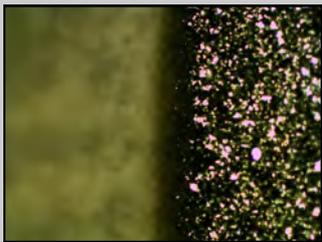
HYDAC SOLUTION

The HYDAC solution is to install a **HYDAC Compact OLF 5/4** model connected into the individual wheel motor lubrication reservoirs which are integral to the rear wheel motor housing. The assemblies being rated for up to 7000 cSt are well suited for duty and can be installed with varying levels of filtration down to 1µm to provide effective contamination control and the reduction of internally generated wear debris. The motor powering the OLF can be converted to the voltage required. Currently we have a 24 volt DC model for this application. HYDAC Part Number: 3139078 OLF-5/4-S-200-U-Z-BM.

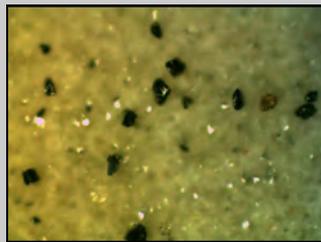


RESULTS

As a result of installation, and after initial clean up of the wheel motor system, the wheel motors maintain a constant acceptable level of oil contamination which in turn will reduce the generation of wear debris providing benefits in extension of fluid life, reduced component wear and increased component life and reliability.



BEFORE

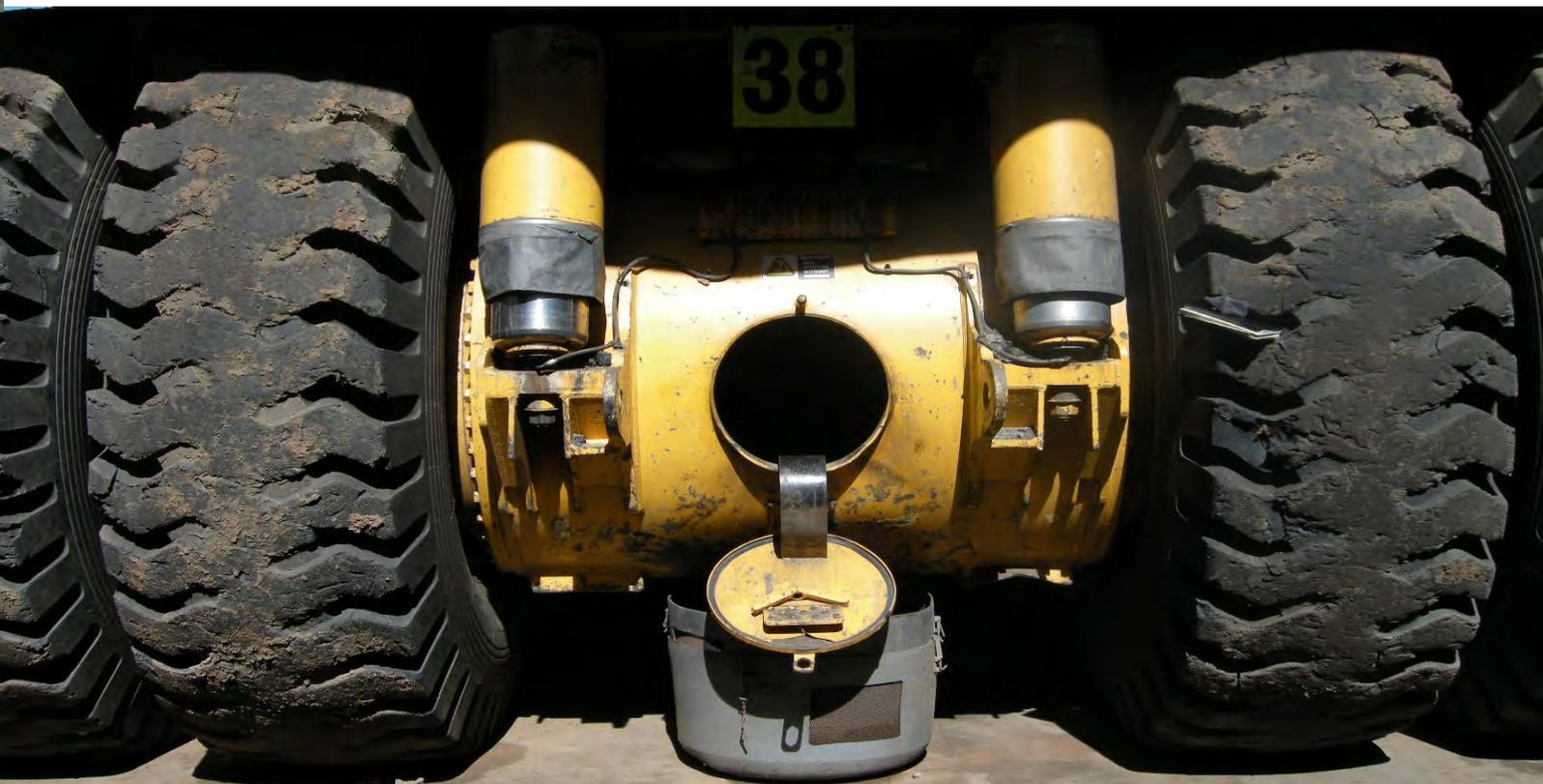


AFTER



BEFORE - AFTER

*After installation
Oil Cleanliness Samples*





**GLOBAL PRESENCE.
LOCAL COMPETENCE.**

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