



**CASE STUDY: FOCUS ON SUSPENSION TO IMPROVE AVAILABILITY**

A large open pit coal mine began to experience frequent damage to truck frames. This damage led to failures which in turn created significant amounts of downtime and expensive repairs. This also resulted in severely erroneous payload measurements by the trucks on-board weighing systems which rely on suspension strut pressure data, among other metrics.



**LOCATION:** South Africa

**YEAR:** 2018

**APPLICATION:** Truck Performance

**SOLUTION:** MaxMine Maintenance

**MAXMINE APPLICATION:**

Following the implementation of MaxMine, it was determined that overcharged suspension cylinders were a root cause of these failures, specifically the incorrect recharging procedures. A dedicated crew of artisans and technical specialists recharged and reset ride heights along with re-calibrating payload measurements of all the machines in the fleet. MaxMine established mechanisms to remotely measure strut pressures before and after recharging and having analysed the data the correct procedure for recharging was formulated.

**CLIENT RESULTS AND DISCUSSION:**

- **12% increase** in machine availability.
- **91% reduction** in suspension related alerts generated daily.

