

Monitor OTR tire pressure in mines

APPLICATION C178

The increasing cost of OTR tires for heavy equipment has made “work load” (or *Ton Kilometer Per Hour*) an important parameter in tire selection and equipment maintenance for the mining industry. Loaders, earthmovers and mining vehicles are used on surfaces that are generally not well kept — with adverse rock, sand, gravel, and damp soil conditions, correct tire pressure is critical for proper operation and work load of the tires. Mining and pit operations are constantly changing and in most cases the distances between the pit, crusher and conveying systems are increasing. This means the tires are working longer and harder with less cooldown time, so proper tire maintenance is becoming even more critical.

Type of Company: [Technical Maintenance & Sales](#)

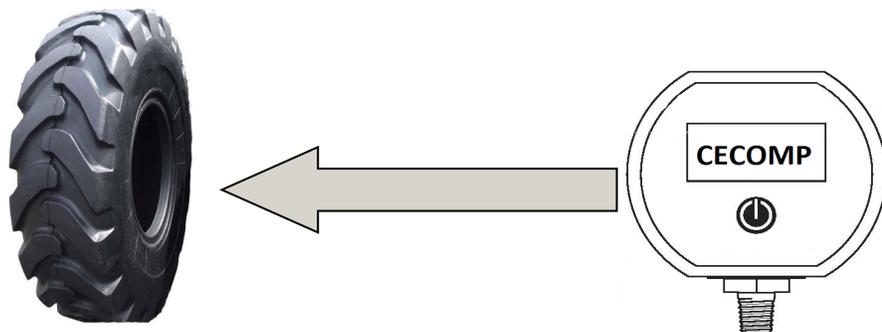
Location: [Minnesota](#)



Photo by Pete Markham

The Engineering Issue

- The engineer has a requirement to check the OTR tire pressure at the start of every shift to ensure that there are no problems with the tires.
- This check requires a rugged, accurate, and intrinsically safe digital pressure gauge as there is the possibility of explosive gases in mine and pit areas.



The engineer used an Ultra-Ruggedized Cecom DPG2000BBL digital pressure gauge. This gives the operator an FM approved (intrinsically safe) gauge with an accurate visual readout of the tire pressure.

Problem. Solved.