

6060 HD Rollers

Rolling to Find Diamonds in the Rough



Customer Focus

- Increase productivity
- Reduce maintenance costs
- Improve reliability
- Reduce maintenance downtime

Site Application

Machine: Cat® 6060 Hydraulic Mining Shovel

Current UC System: Cat 477-7938

Commodity: Diamond

Digging Conditions: High abrasion, moderate impact

Caterpillar Solution

Cat Heavy Duty (HD) Roller (477-7938)

Results:

- Reduced maintenance costs
- Improved reliability and performance
- Reduced maintenance downtime



**“6060 HD
rollers:
9,000 hours
and still
going.”**

A customer in South Africa was unsatisfied with the performance of legacy 6060 rollers—whether they were from Caterpillar or competitive aftermarket offerings. The legacy rollers would fail by overheating or breaking the center weld in as little as 80 hours and had a maximum life of 8,000 hours.

The customer was sceptical of the Cat HD rollers, but they were willing to try a few “test” rollers. The customer reported that the HD rollers outperformed the legacy Cat rollers and the competitor rollers. They also reported a significant savings on grease consumption and maintenance associated with the grease system. The HD rollers have now been on the machine over 9,000 hours and over 1,500 travel hours (16.6% travel).

Avoiding a roller failure is worth \$4M Rand (\$270,000) in maintenance cost avoidance, so the customer was very satisfied with the HD roller performance. He said, “Going forward I only want the new HD rollers—I will do not want to see the old-style rollers on my site again.”

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