tharisa

South Africa

SUPPORTED BY MANAGED SERVICES

Tharisa Mine, located in South Africa's Western Limb of the Bushveld Complex, is a 14-year open-pit operation with a projected 40-year underground life of mine extension. The mining operation extracts reef from five MG Chromitite layers.

PROBLEM

In the months following a return to operation post COVID-19, there was a noticeable escalation in transmission-related equipment alarms reported by the VisionLink asset management system. Monthly transmission-related costs for the Cat® 785 RDT haul truck fleet were also found to be rising.

SOLUTION

Embedded Trainers and on-site advisors returned to site early June, following a COVID-19 lock-down. Training activities were ramped up to assist in the efforts to improve equipment health and reduce damage related costs.

A new targeted training curriculum was implemented for the existing on-site simulator fleet to improve awareness amongst haul truck operators. The haul truck workforce was then provided targeted training on correct brake application and gear selection on the simulator.

In-field impact was measured through ongoing monitoring of the fleet data (using VisionLink reports).

Financial data was correlated with the Fleet Management System and simulator data. This data was used to compare money spent on transmissions, transmission services and all related transmission abuse compared with the period prior to the targeted training program.
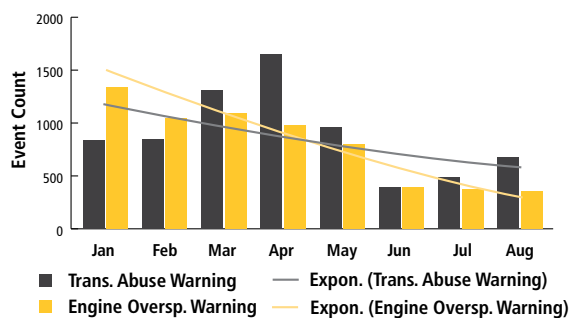
RESULTS

- 53% reduction in Transmission Abuse warnings
- 64% reduction in Engine Overspeed warnings
- 23% reduction in transmission-related expenditure

PRODUCTS IN USE

- PRO4-B Simulator High Fidelity Simulator
- Conversion Kit® for Cat® 785C, 785D, 789C, 789D, 793C, 793D, 797 Haul Trucks
- SimMentor™
- Continuous Improvement Projects

Transmission Abuse Events

Transmission related purchases