



**APM software found an increasing number of High Left & Right Front Brake Oil Temperature events on truck fleets.** Consultants identified that several operators were responsible for most of the events. Based on their locations, these events were:

- Caused by high speeds
- Resulting from late braking
- Occurring at similar intersections

These observations highlighted two possible improvement areas:

1. Implementing operator training to ensure machines slowed and were correctly braked before intersections.
2. Circuit design improvement at specific event firing intersections

During the review process, it was found that one individual machine was firing the highest number of events.

**Based off this information, the trucks braking system was inspected and found that one brake pack had increased wear and required replacing.**

**Using APM analytics, mine operators were able to:**



✓ Identify the specific causes of brake oil temperature events



✓ Detect any early brake issues on machines



✓ Reduce overall equipment brake wear from correct operation



✓ Improve onsite safety due to better equipment maintenance and performance