



Kazakhstan



SUPPORTED BY **MANAGED SERVICES**

KAZ Minerals is one of the largest copper producers in Kazakhstan and the CIS region, producing an average of 170 kt from the large open pit mine located in South Eastern Kazakhstan near the China border.



2023
Business Improvement
Award Winner

PROBLEM

Two simulators and five mobile equipment kits were commissioned to the Aktogay mine site in 2020.

In August 2022, a detailed analysis of all simulator data was completed. The report identified several key operating errors that directly impacted fuel efficiency factors with the Cat® 793 Haul Truck fleet.

A correlation with the truck VIMS Data confirmed those errors regularly occurred in the field.

SOLUTION

Immersive Technologies developed several scenarios to reduce the events identified in the analysis report.

To better collaborate with Mine Training, Operations and Maintenance departments, Immersive embedded a hands-on-support resource for the two training rounds over a three-month period with support from Immersive Technologies Advisors.

RESULTS

- 31% reduction in abusive shifts (VIMS)
- 75.7% reduction in engine overspeed errors (VIMS)
- 45.4% reduction in gear select errors (VIMS)
- 36% reduction in fuel efficiency errors

PRODUCTS IN USE

- IM360-B Advanced Equipment Simulator
- Conversion Kit® for Cat® 785C, 789C, 793C, 785D, 789D, 793D, 797 VIMS Haul Trucks
- Pre-Start Inspection
- SimMentor™
- Managed Services

