PROBLEM SOLVED™ PAPER

SOLUTION: Martin® QC1™ Cleaner HD and Martin® DT2 Inline Cleaner.

INDUSTRY: Mining

LOCATION: PT Antan Nickel Mining, Pomalaa, Indonesia

PROBLEM

Rocks would wedge in the primary belt cleaner, breaking the splice and shredding the belt.

PT Antam Mining of Indonesia had inadequate belt cleaners causing belt damage, spillage and carryback on a reversing belt within the mine. Conveying 360,000 tonnes (397,000 tons) per month, the previous equipment did not keep a seal across the belt profile. Incomplete cleaning caused excessive carryback and spillage along the return belt path, increasing the need for cleanup. Rocks would wedge in the primary belt cleaner, breaking the splice and shredding the belt. Operators also realized that the secondary belt cleaner was not made to handle reversing belts, causing the belt to tear when the belt was reversed.

SOLUTION

Technicians examined the issue and installed a Martin® QC1™ Cleaner HD and Martin® DT2 Inline Cleaner.

Technicians from P.T. Martin Supra Engineering, distributor of Martin Engineering equipment in Indonesia, examined the issue and installed a Martin® QC1™ Cleaner HD and Martin® DT2 Inline Cleaner Reversing. The Martin® QC1™ Cleaner HD has a single curved urethane blade with a Constant Angle Radial Pressure (CARP) design to keep a consistent seal on the belt. It combines sturdy performance with easy one-pin blade replacement. Using a tungsten carbide-tipped reversing blade to offer improved cleaning of dust and fines, the Martin® DT2 Inline Cleaner reduces laborious cleanup and prolongs the life of conveying equipment.

RESULTS

Operators report that blades run easily over the belt and splice and that the system is running efficiently.

Once the new equipment was installed, the customer noticed immediate results. Material no longer gets caught in between the blades, damaging the belt and splice. "Quite nice," said a P.T. Antam spokesperson. "The belt is clean of carryback and spillage is reduced. There has been no downtime for breakdowns due to belt damage so production is much smoother." The amount of labor time for maintenance and cleanup has been also cut. Operators report that blades run easily over the belt and splice and that the system is running efficiently.

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