

Company Profile: One of the world's largest producers of copper

Industry: Copper Mining

Product Produced: Copper

The Story

One of the most important operations in mining is the movement of ore, made possible by enormous off road dump trucks. This process is extremely costly and potentially dangerous.

A single dump truck handling 360 nominal tons of material can cost upwards of \$3.4 million USD. These trucks drive revenue making it critical to to keep them running.



The Challenge

One of the largest copper extraction companies in the world was struggling to automate the engine oil exchange process of off-road trucks. The process was being handled manually in the truck show area which left employees to a high safety risk of leaks, and exposure to hazardous oils and chemicals. In addition, their current situation resulted in unnecessary and costly downtime.

Requirements

- Leak-free bolted design
- Gounded for safety
- On/off/on reliability
- Run dry capable
- Air efficient operation
- Chemical compatibility

Solution Overview

The experienced, local SANDPIPER distributor, suggested an integrated solution consisting of a SANDPIPER pump mounted on a system with a mobile cart and accessories. Making this change allowed the customer to automate their process, reduce maintenance time, and reduce the chance of leaks.

The SANDPIPER S15 high flow, 1 1/2" aluminum/Nitrile model was specified as the option to deliver the required flow volume. The ability of this model to dry prime, run dry without damage, and the high reliability of its air distribution system (ESADS+), results in a very low maintenance rate.

That SANDPIPER pump delivers a wide range of critical mechanical fluids such as but not limited to: Engine oils, transmission fluid, hydraulic fluid, windshield solvent, Antifreeze (Engine coolant) and calcium chloride (Tire filling liquid ballast).

SANDPIPER AODD pumps are chosen for mining vehicle maintenance because they provide;

- **Safe Operation:** No electricity required, and units can be grounded for safe flammable fluid transfer.
- **Environmental:** Leak-free design to prevent hazardous spillings
- **Reliability:** Patented air valve system delivers consistent efficient operation.

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