



## Application

With the increased demand for raw materials and precious metals worldwide, mining operations are increasingly active. Operators are requiring increased reliability and availability of their heavy mobile and support equipment in order to meet these market demands. Diesel engines employed in these operations are regularly monitored by maintenance engineers and sub-contractors who find the root-cause of many engine failures comes from the diesel fuel supplying the engines.

## Problem

An Indonesian gold mine was having numerous problems with what they describe as “fuel related” failures. These included on-board engine fuel filters blocking between PM (planned maintenance) schedules, fuel injector failures, fuel pump failures, excessive exhaust smoke, and engine fuel starvation. Upon investigation it was found that the bulk fuel being supplied to the equipment was excessively contaminated with particulate and water.

## Solution

The mine installed numerous Pall **HighFlow Ultipleat**<sup>®</sup> filters to remove particulates and Pall **PhaseSep**<sup>®</sup> coalescers for water removal on strategic bulk fuel tank locations on site.

## Results

- 90% reduction in reported injector and fuel pump failures.
- Reduced exhaust smoke in the underground sections of the mine.
- Reduced engine failures and engine stoppages to change on-board fuel filters and other components between PM schedules.

## Bulk Diesel Fuel



**Pall High Flow Ultipleat<sup>®</sup> & PhaseSep<sup>®</sup> filter housings installed at one of the bulk fuel tanks**



**Diesel fuel sample downstream of Pall fuel filters; ISO Cleanliness Code -13/10 and water content below 100ppm**

Contact us at [www.pall.com/mining](http://www.pall.com/mining)