



## Application

With an increase of demand in raw materials worldwide, open-cast mines are very active. Operators demand increased reliability and availability of their heavy mobile equipment in order to meet the market demand.

Diesel engines employed in these operations are regularly monitored by maintenance engineers who find the root-cause of many engine failures comes from diesel fuel itself.

## Problem

Improved filtration required to:

- Eliminate power loss problem caused by fuel contamination and extend injector service life on engines.
- Improve the cleanliness level of bulk diesel fuel at the pump.
- Minimize fuel system component failure and associated costs.

## Solution

- 1 x Pall **Ultipleat**<sup>®</sup> SRT UR699 – 40" length filter, rated at 5-micron, installed on diesel fuel bowser.

## Results

- Eliminated the need for monitoring cleanliness levels throughout the diesel supply chain.
- Increased equipment availability by reducing fuel injection component problems.
- Reduced emissions.
- Achieved in excess of 1.2M ltrs element life service life.
- Cost for filtering less than 0.001 cents/liter of fuel.

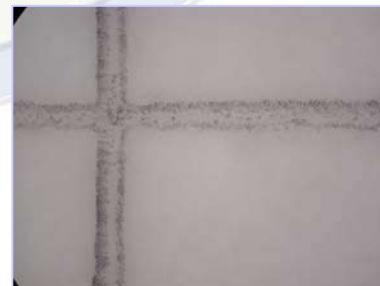
## Diesel fuel application in mining



Pall **Ultipleat**<sup>®</sup> SRT In diesel fuel applications



Photomicrograph of fuel contamination **upstream** of filter



Photomicrograph of fuel contamination **downstream** of filter

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