



CASE STUDY

CUSTOMER

SURFACE LIGNITE MINE

LOCATION

EAST TEXAS, USA / OCT 2012

EQUIPMENT

BULK DIESEL TANK

APPLICATION

DIESEL TANK FLUSHING

PROVEN
RESULTSIMPROVED
PRODUCT
QUALITY

PROBLEM

The presence of contamination in the diesel fuel tank causes damage to fuel system components including the circulation pump. Traditional filtration is unable to remove the most damaging contamination (below 10 microns) effectively causing premature wear of the injectors, actuators, and camshaft.



SOLUTION

Mark Scott a Mining Specialist for Applied Energy suggested the installation of an OEI magnetic filter scrubber as a pre-filter on the suction side of the circulation pump in order to protect it from premature wear and improve the fuel quality.



RESULTS

The photo demonstrates the tremendous amount of contamination removed by the magnetic filter that traditional filtration would have missed. By removing the ferrous contamination to submicron levels the diesel fuel is cleaned to a much lower ISO level than the standard (18/16/13) and the life of the pump and the fuel system components are increased. The life of the traditional filter is also extended. The higher level of cleanliness of the fuel results in a more efficient burn and reduced emissions.

PRODUCT
RECOMMENDATION
**MAGNETIC
FILTER SCRUBBER**

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