

DONALDSON MAXIMIZES OPERATIONAL TIME

Gold Mine saves over \$2 million with Donaldson Clean Solutions

Donaldson Clean Solutions brought one of Europe's largest gold mines over \$2 million in savings in one year.



Case

For one of Europe's largest gold mines, each minute is worth \$2,500. With 23 hour production runs every day, 7 days per week, each unplanned downtime has a significant financial impact. Mining conditions are amongst the harshest production environments machine and human operate in. These conditions ask for high performing equipment and efficient filtration play a key roll to keep operations going and maintenance schedules as planned.

As direct result of the environment, the fuel within on-site tanks but also the supplied fuel is contaminated with dust and dirt particles. Contaminated fuel is causing unplanned downtime and extra maintenance including additional engine spare parts such as new injectors.

Situation

Diesel tanks

- 4 Diesel tanks of 40,000 liters
- 3 Diesel pumps for equipment fuel filling
- Tanks refilled every 2nd day
> Total consumption 1,5 million liters per month

Oil tanks

- 3 Oil tank of 10,000 liter each
- 1 tank with 10W oil
- 1 tank with 25W oil
- 1 tank with Heavy gear oil

Clean Solutions generate savings - Improving your Total Cost of Ownership

Operation	Before Donaldson	After Donaldson	Savings	Total Cost Savings
Injector failure	6 machines/year	3 machines/year	\$5,200 per injector	\$15,600
Unplanned downtime	24 hours	12 hours	\$150,000 per hour	\$1,800,000
Service intervals	250 hours	300 hours	20% on filter parts	\$200,000
				\$2,015,600

Installation

Our customer implemented the Clean. Protect. Polish. principle. Clean, to treat fuel before it enters the on-site bulk tanks, four 40,000 liter tanks. Protect, to protect the fuel in the on-site bulk tanks. Polish, to clean the fuel when pumped into the equipment, 3 on-site diesel pumps with two dual head filters.



Clean.

Installation	Filter element	Filter spec	Filter change
8-Manifold	DBB8666 (summer)	4μ	5 weeks
	DBB8665 (winter)	7μ	5 weeks

The High-Capacity Clean Diesel manifold works for operations with highflow delivery systems that regularly need large quantities of clean diesel delivered efficiently.



Protect.

Installation	Filter element	Filter spec	Filter change
T.R.A.P. Breather	DBB8666 (summer)	4μ	12/16 weeks

The Donaldson T.R.A.P. (Thermally Reactive Advanced Protection) Breather protects the fuel in your bulk tank by stripping moisture and removing particulate from the incoming air, without affecting flow rates of fluid into and out of the tank.



Polish.

Installation	Filter element	Filter spec	Filter change
Diesel pump/ 2 Dual head installation	DBB8666 (dirt filtration)	4μ	5 weeks
	DBB8248 (water filtration)	water separation	5 weeks

The High-Capacity Clean Diesel dual head works for operations with highflow delivery systems, cleaning dirt and water out of the diesel before it is pumped into the vehicle.

Conclusion

Removing contamination with bulk filtration prior to pumping fluids into equipment allows on-board filtration systems to do their job better, while supporting advanced systems required to meet new regulations.



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