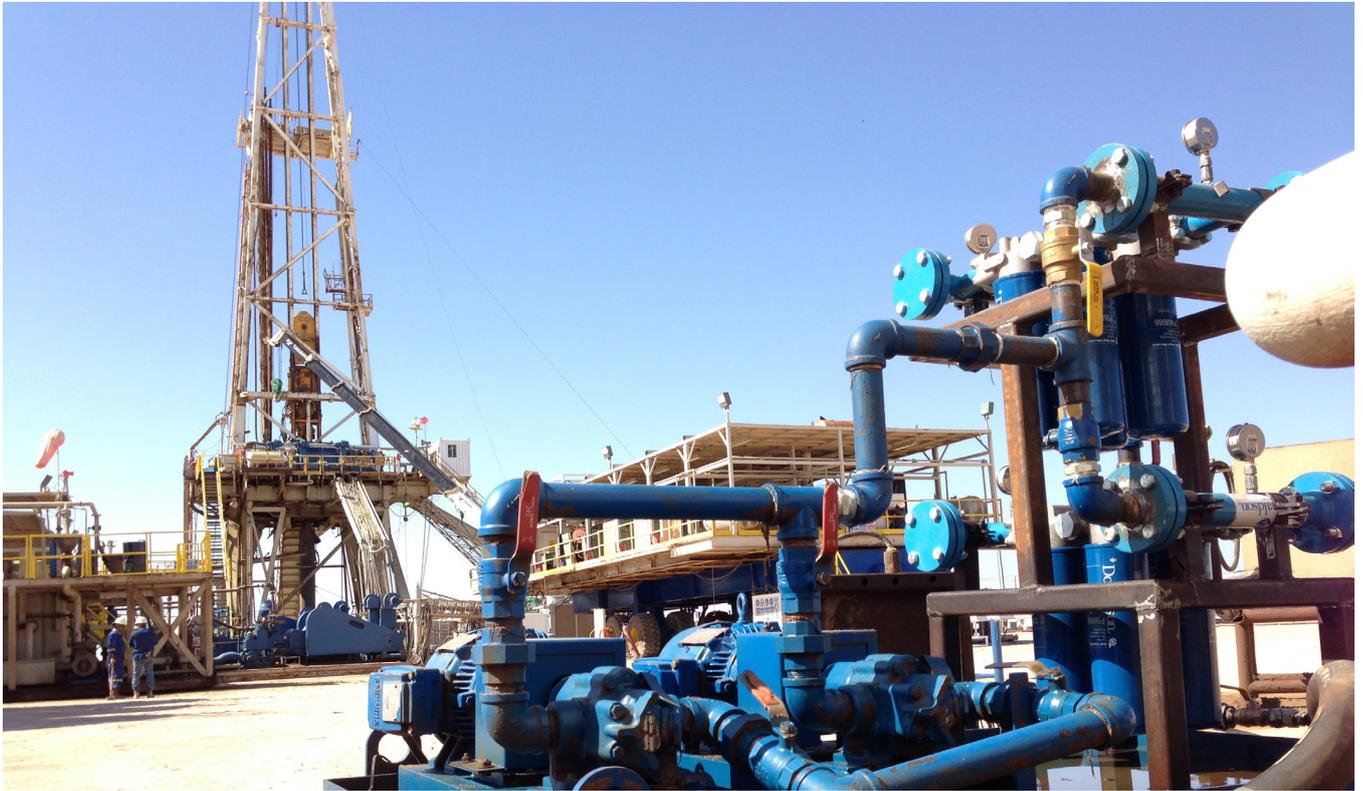




Clean Fuel Case Study

Donaldson's Clean Solutions Assuring continuous oil drilling



The Situation

In an oil driven world, every drop counts. Each second of downtime during the oil production process, comes with an enormous cost. A well-known oil company faced issues with its on-site diesel powered generators. Donaldson delivers clean solutions to make sure the on-site engine equipment is protected against contaminated fuel which causes serious downtime.

The Challenge

A world market leader in fuel, lubricants and other petroleum derivative experienced unexpected breakdown of multiple diesel engines on generators that foresee oil rigs with the necessary power to pump up oil. Research showed that the fuel used to power the oil drilling diesel generators wasn't clean. Moreover, it showed that on-site equipment fluids had extremely poor filtration and in some cases, no pre-filtration at all. The contaminated fuel caused the diesel generators to breakdown.

The Solution

Donaldson has the perfect solution to clean fuel and to assure your equipment won't break down due to 'dirty fuel'. One 4-way manifold on the inlet and two 2-way manifolds on the outlet, one active and one for backup, were installed at the on-site bulk diesel tank. In addition, to avoid water contamination in the tank, Donaldson delivered it's unique T.R.A.P.[™] breather concept.

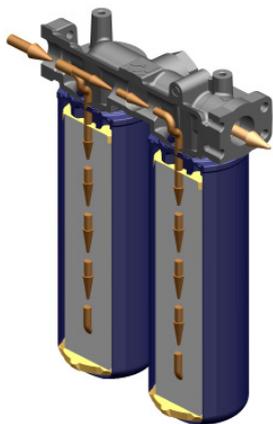
The Result

The customer decided to foresee three additional oil rig sites with Donaldson Clean Solutions.

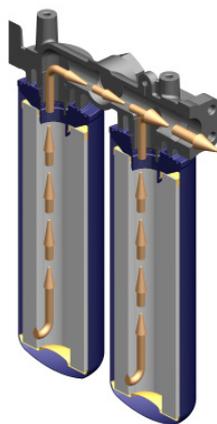
By reducing contamination levels in the bulk filtration system, you can reduce maintenance, downtime, labor costs and your total cost of ownership. Count on Donaldson when every operating hour counts!

Filter manifolds - Designed for systems of any size, with minimal pressure drop

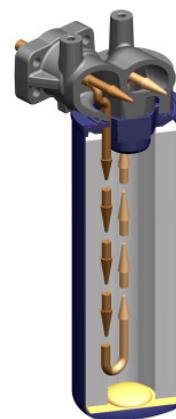
Donaldson bulk assemblies are manufactured with parallel flow configuration of the filters to reduce pressure drop across the assembly, providing single-pass filtration efficiency, resulting in the targeted fluid cleanliness.



The flow is split between the two filters shown. Half of the flow travels through the first filter and the remaining flow travels through the second filter. Flow does not travel through both filters in sequence.



Fluids pass through the media and cleanliness targets are achieved in a single pass.



Clean fluid is pushed out of the filter, through the head and out into storage or for use.

Why Filter Bulk Fluids?

The increase in diesel injection pressures on engines and the sophistication of today's equipment require higher cleanliness levels. Donaldson bulk filtration systems can reduce downtime, save on costly component replacement and improve fuel economy. In short, Donaldson reduces your total cost of ownership.

Contaminants and water are the enemies of engine fuels and lubricants, robbing vehicles and equipment of performance and longevity.

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

1 Clean.

Donaldson single-pass filtration on the inlet can be configured for high flow rates while maintaining low pressure drop and reducing contaminants to the desired cleanliness level.

2 Protect.

The Donaldson T.R.A.P.™ breather prevents dust and moisture from entering while allowing high flow rates of fluid into and out of the tank.

3 Polish.

Because unstable fluids and the tank itself can be a source of contamination, final filtration on the outlet ensures that targeted ISO cleanliness levels are achieved.



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