

Donaldson's bulk fuel and lube filtration – a cost-effective solution

The African environment has extreme variances in temperature giving rise to condensation during the storage of fuel and lubricants, not to mention the high levels of contamination in the air. Fleet operators can buy 'clean' fuel and lubricants only to find that it becomes contaminated during bulk storage as well as in machinery and vehicle tanks.

Using the latest technology available, Donaldson Filtration Systems has developed bulk liquid fuel filtration solutions that are well-suited to African conditions.

Proper filtration reduces downtime and resultant loss of production and also reduces component repair and replacement. In addition, it reduces fluid replacement and disposal costs and the total cost of ownership.

Filtration on bulk oil and diesel systems prevents the ingress of solid particulate matter into equipment when filling or topping-up oil or fuel tanks. According to the major



component manufacturers, over 70% of system failures are the direct result of poor fluid condition and/or management.

Since many contaminants are airborne, any oil or fuel exposed to the atmosphere will become contaminated unless the air is filtered or the container is completely sealed.

One of the most effective ways of minimizing filtration costs is the recirculation of oils and fuels through filtration while in storage. The recirculation and filtration of liquids continuously dilutes the contaminants. It enables the use of lower efficiency filtration while achieving remarkably high cleanliness levels.

As a general rule, it is necessary to circulate all the oil or fuel in a storage vessel six to seven times to ensure all products has been filtered at least once. Take this into account when designing a new storage system on mobile or industrial equipment.

In addition to particulate filters in diesel systems, water removal filters can be installed in lines upstream of bulk tanks as well as downstream on the filling/recirculation lines. These filters will separate water from diesel with flow rates ranging from 0-600 L/min. Each unit is fitted with a manual drain kit in order to remove the water collected inside the filter housing.

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