



BOLTGAS®

TRUSTED INGENUITY & SERVICE EXCELLENCE

ENGINE FILTRATION

Authorised Agent and Distributor of Donaldson. FILTRATION SOLUTIONS

Boltgas Engine Filtration 2.indd 1 2021/07/16 9:37:10 am



High Perfomance Filtration

Innovative filtration solutions for engines, equipment and the people who use them.

- **Industry-Leading Technology**
  Uncompromising product quality
- **OE Grade**
  Donaldson is the “first-fit” choice of equipment manufacturers around the world
- **Broad Product Coverage**
  Air, lube, fuel, coolant and hydraulic filters and systems, plus exhaust, accessories and more
- **Consistent Product Availability**
  The filters you need, when you need them
- **Comprehensive Customer Service**
  Experienced and knowledgeable sales and technical support teams
- **Distribution That Makes a Difference**
  Support from exceptional partners that know agricultural equipment and are quick to respond



BOLTGAS | ENGINE FILTRATION

A

Boltgas Engine Filtration 2.indd 2 2021/07/16 9:37:11 am



Agricultural Filtration

Donaldson delivers the most comprehensive line of filtration solutions for your **agricultural equipment**

Downtime means lost revenue. To keep your equipment in the field, you need filters that deliver superior performance - and a reliable supplier that offers complete coverage.

Filters are an important part of any effective maintenance program. They need to withstand the harsh demands of the field. Donaldson filters deliver the right combination of quality and value that help to keep your operation running smoothly.



BOLTGAS | ENGINE FILTRATION

A

Boltgas Engine Filtration 2.indd 3 2021/07/16 9:37:12 am



Mining Filtration

High performance filtration is the best preventive maintenance there is for hard-working equipment in the mining industry.

Downtime means lost revenue. To keep your equipment in service you need filters that deliver **superior performance** - and a **reliable supplier** that offers complete coverage for your entire fleet.

With Donaldson protection, your engines and equipment will operate longer between filter replacements, saving on costly downtime and repairs.

And adding a Donaldson filtration system to your bulk fuel and lube storage will go even further toward protecting your equipment and maximizing uptime.



BOLTGAS | ENGINE FILTRATION

A

Boltgas Engine Filtration 2.indd 4 2021/07/16 9:37:14 am

Air Filtration

As a **Donaldson** official distributor, we have air cleaners available for heavy duty equipment like mining equipment. We have Replacement Filters for all our filters. We also have high end technology for a wide variety of these filter. We also stock Precleaners which extend the air cleaner life by making sure large particles do not reach the filter.



Air cleaners



Replacement filters



Pre-cleaners

Hydraulic Filtration

We have a wide range of filters from low pressure to high pressure filters. We also have cartridge style DT which prolongs the life of heavy duty equipment. In addition, we have offline filtration which cleans new lubricating oils before putting them in any equipment.



Low Pressure



Medium Pressure



High Pressure



Cartridge Style DT filters



Off-line filtration

Lube Filtration

These protects the engine by capturing all contaminants that may damage the engine.





Boltgas Engine Filtration 2.indd 5 2021/07/16 9:37:14 am

Fuel Filtration

There are a variety of fuel filters that protect and extend life of injectors. We also have filters integrated with WIF sensors that makes water removal easy. We even hold stock of secondary filters that helps with contaminant removal. We have replacements for all of these.



Fuel filters



Replacement filters for Cummins® engines



Donaldson Blue® Cummins® OSK secondary fuel filter



Replacement filters for Racor® fuel systems



Replacement filters for Stanadyne® Fuel Manager® FM 100 fuel systems

Clean Fuel & Lubricant Solutions™

These clean fuel for optimal performance of all your machines. The variety of filters can allow cleanliness of fuel in a single pass, they can increase flow rate beyond capabilities of a single of dual head.



Clean Solutions fuel & lube filters



Clean Solutions filter manifolds



T.R.A.P.- Breather and Active Reservoir Vent



Bulk hP filters and heads

Mufflers & Exhaust Accessories



Mufflers



Clamps and accessories

Filtration Accessories



Air intake, engine liquid and hydraulic filtration accessories.

Boltgas Engine Filtration 2.indd 6 2021/07/16 9:37:15 am

Clean Fuel



Typical storage tank contaminated with dirt, water & microbial growth

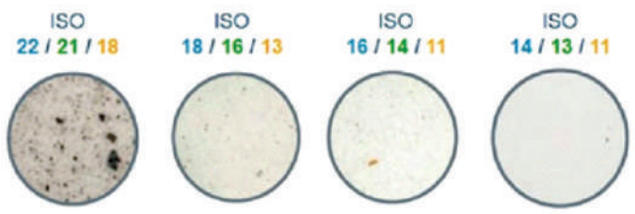
The African environment has extreme variances in temperature giving rise to condensation during the storage offuel and lubricants, not to mention the high levels of contamination in the air.

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.

How do New Fuels Get Dirty?

- **Moving through distribution**
  - Through pipelines
  - Into and out of storage tanks
  - Into and out of delivery vehicles
- **Poor maintenance practices**
  - Poorly maintainedtanks
  - Contaminated transfer nozzles

Recommended Cleanliness Levels by fluid type



Typical cleanliness of delivered fluids

Target rating for heavy gear/ engine oils

Target rating for hydraulic/ transmission oils

Target rating for diesel fuel before entering equipment

Injector Wear

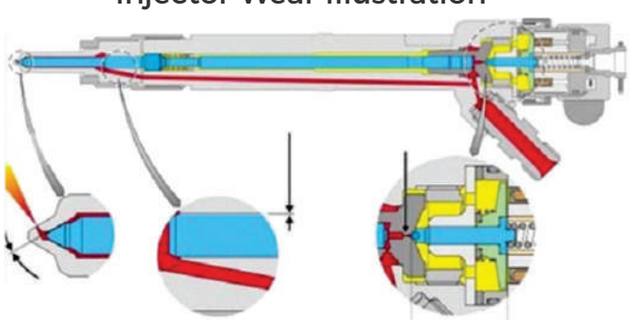
With the increase in diesel injection pressures on engines and the sophistication of plant machinery, higher fuel and fluid cleanliness levels are a requirement in today’s equipment.

Impact on Tier III & IV Engines

Contaminants < 4 µm cause the worst damage

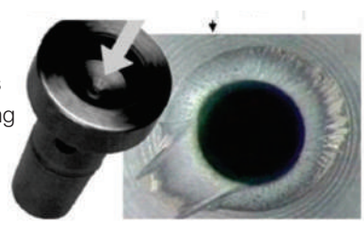
Common Rail Injector Failure

Injector Wear Illustration



Damaged or sticking injector valves can cause excess fuel to cylinder and catastrophic engine failure.

Dirty fuel causes distinctive scoring



BOLTGAS | ENGINE FILTRATION

A

BOLTGAS®

TRUSTED INGENUITY & SERVICE EXCELLENCE

HARARE OFFICE

58A Steven Drive, Berverly West
Msasa Industrial, Harare
T: +263 4 487113-4
T: +263 4 447765-6

BULAWAYO OFFICE

Cnr Fife Street & 14th Avenue,
Bulawayo, Zimbabwe
T: +263 292 887251

SOUTH AFRICA

4 Glasglow Road, Benoni
Industrial Site, 1500, South Africa
T: +27 11 892 4291/3
T: +27 11 892 4083
E: sales@boltgas.com

DRC OFFICE

Unit 144 Pilipili Avenue
Kolwezi Town, Lualaba Province,
DRC Congo

MOZAMBIQUE

Rua 1^{0} de Maio, No 1, Bairro
de Matundo, Tete, Mocambiqu
T: +84 515 2780
E: chris@ferrugemdegas.com

www.boltgas.com

Boltgas Engine Filtration 2.indd 8 2021/07/16 9:37:15 am