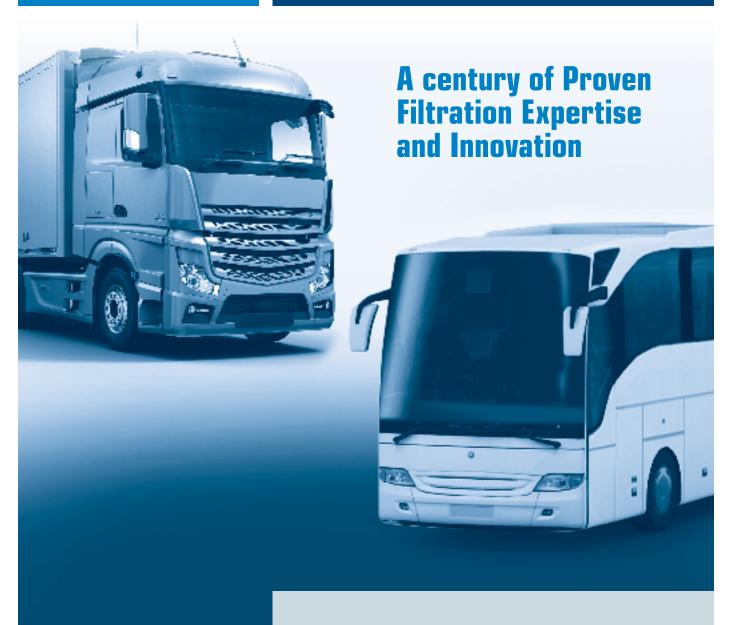


On Road Capabilities



You need effective filtration to keep your fleets in operation - and you want complete coverage for your entire fleet from one supplier.

Donaldson offers a full range of filtration and exhaust system products for truck and bus equipment. Our products enhance engine and equipment performance while protecting the environment in which they operate.

Donaldson Delivers.







Our innovative filtration solutions cover all possible on-road heavyduty applications, ensuring the optimal performance of your vehicle with minimal downtime and maintenance. We are a worldwide **OE supplier.** Therefore, all our aftermarket products meet the specifications of original parts. For the best total cost of ownership, transport professionals rely on Donaldson filters.

Because they keep you rolling - mile after mile.

Go to www.donaldson.com.







Donaldson offers a full range of filtration and exhaust system products for truck and bus equipment. Our products enhance engine and equipment performance while protecting the environment in which they operate.

OEM's around the world choose Donaldson for first fit applications. Durable, rugged and built for the long haul, Donaldson replacement filters are manufactured to the same quality specifications as the original.

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From air inlet to tailpipe

- 01 Air cleaner and filter
- 02 AdBlue® filtration
- 03 Cabin air panel filter
- **04** Air dryer
- **05** Fuel filter water separator
- **06** Transmission filter
- 07 Lube filter
- 08 Crankcase ventilation filtration system
- 09 Coolant filter
- 10 Fuel filter



Comprehensive Filtration Solutions for a Full Range of Truck and Bus Applications

- 01 Air cleaner and filter
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- 03 Air dryer
- **04** Fuel filter water separator
- 05 Transmission filter
- 06 Lube filter
- 07 Coolant filter
- 08 Fuel filter



OEM Approved Technology for on-road engine applications



Fuel Filtration

- Expanded line of fuel filters protect engine components and extend equipment life.
- Includes a full complement of filters to fit Cummins® engines, Racor® fuel systems and DAVCO® Fuel Pro® 380/382/482 systems.
- ► Twist&Drain[™] valves turn the complicated task of removing water into an easy process.





Lube Filtration

- Donaldson lube filters keep engine oil clean by capturing contaminants that can cause engine damage.
- With coverage for a full range of popular engines, Donaldson lube filters meet or exceed application requirements.





Hydraulic and Transmission Filtration

- Offering a broad line of spin-on, cartridgestyle and in-tank hydraulic filters – including high, medium and low pressure options – that protect transmissions, machinery and components in hundreds of applications.
- Complete line of hydraulic accessories to accommodate virtually any mobile application.
- Donaldson Duramax® filters are the highest rated medium pressure filters available.





Coolant Filtration

Donaldson coolant filters remove contaminants and maintain cooling system balance – helping to keep today's hot-running engines cool and reducing downtime.





Donaldson Clean Solutions™

Filter your fuel prior to entering your vehicle following our Clean.
Protect. Polish.™













Air Filtration

- PowerCore® technology delivers improved filtration performance in a smaller package
 - Straight-through fluted design for greater efficiency
 - Offers better engine protection with no media movement, expansion, contraction or bunching
 - Contamination encapsulation makes servicing easier
 - Over 10 million sold, over 10 years in service on heavy-duty on- and off -road equipment.
- A full line of air intake systems, replacement parts and accessories for new and retrofit applications in a variety of styles, sizes, materials and performance specifications.
- Donaldson cabin air filters improve air quality by removing allergens and pollutants before they enter the truck cab.





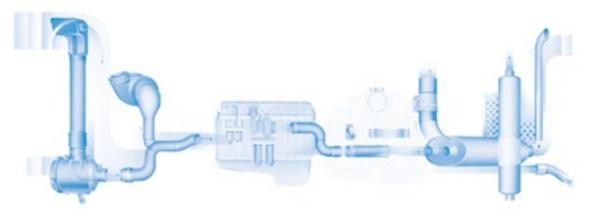


Mufflers & Exhaust Accessories

For more than 50 years, Donaldson has been a leading supplier of exhaust systems, components and accessories for medium and heavy-duty diesel powered trucks and equipment.

Your Total System Supplier

Count on Donaldson to have the right filters, mufflers and accessories for your engines and equipment. Our filtration solutions optimize on-road performance and reduce maintenance costs.



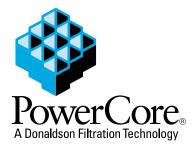
Replacement element for Mercedes-Benz Actros*

This air filtration element is designed for the Mercedes-Benz Actros with filter elements: A0040946804 and A0040946904. We have combined two of our state-of-the-art inhouse technologies for this element, PowerCore® Filtration Technology and 'flame retardant' Ultra-Web® media technology to meet and exceed OE specifications.



- Maintain high performance in a smaller space.
- Invented by Donaldson.

Vehicle design is moving from classic to aerodynamic. This means less under-hood space, highly airflow and other emission requirements with hotter engines... Therefore Donaldson developed PowerCore® Filtration Technology, to do more in less space and to allow system optimization.





The element has been designed with plastic shell that is integrated into the seal for a rigid structure that guarantees the perfect seal and fit.

Ultra-Web®

Donaldson introduced Ultra-Web® Technology to industrial applications more than 30 years ago and to the diesel engine market 20 years ago.

The robust nature of its manufacturing process coupled with its patented chemistry means Ultra-Web® Technology provides a durable filtration solution in the high temperature and humid environments experienced by diesel engines.

Ultra-Web Technology offers a higher initial efficiency compared to standard cellulose media, has very high efficiency throughout a filter's life, provides excellent loading in sub-micron particulate (e.g. exhaust soot), and can even be pulse-cleaned in applications such as military vehicles.



^{*} Mercedes-Benz and Actros are registered trademarks of Daimler AG.

Replacement elements for DAF and Scania

The Donaldson replacement air filter elements are equipped with cellulose flame retardant media and come standard with the RadialSeal™ technology.

Scania G-series & R-series

For the Scania filter elements, recognized by their flower shaped cover, Donaldson has released the aftermarket filter elements. The preferred fit elements have the expected flower shaped closed cover for optimal fitting into the air cleaner. To fit all models, the short and long and normal and flame retardant versions are available in our range. By using the radial seal technology, Donaldson pioneered 20 years ago, we ensure a reliable seal to protect your engine in all conditions. This industry changing sealing technology combines two components into one, the end cap and seal. this flexible sealing material creates that sure fit and simplifies the maintenance.

Name	Donaldson Partnumber	Description
DAF	P951919	Primary filter, Flame retardant media
SCANIA	P953210	Primary filter, Normal media, long version
SCANIA	P953211	Primary filter, Normal media, short version
SCANIA	P953212	Primary filter, Flame retardant media, long version
SCANIA	P953213	Primary filter, Flame retardant media, short version
SCANIA	P953214	Safety filter, long version
SCANIA	P953215	Safety filter, short version



RadialSeal™

Pioneered by Donaldson over 20 years ago. The end cap and seal are combined into one, The flexible sealing material creates a sure-fit and simplifies maintenance. Filters have RadialSeal Sealing Technology that



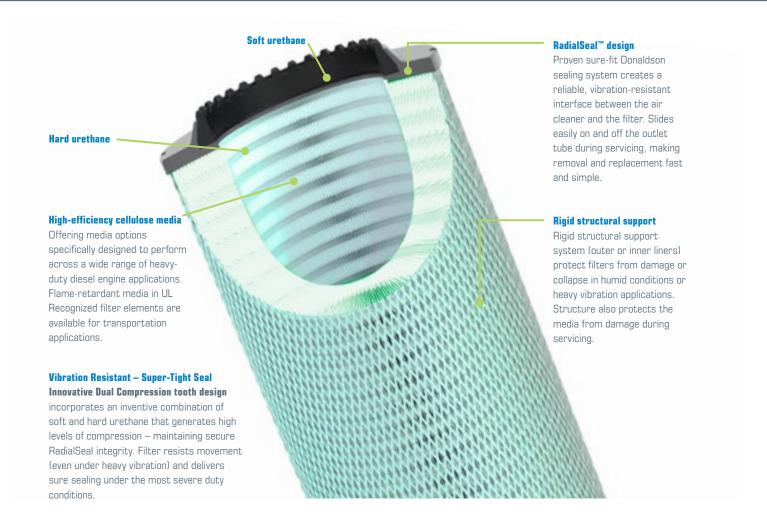
by Donaldson

creates a reliable, critical seal and makes servicing easy.

DAF XF105

For the DAF XF105 elements, Donaldson has released the aftermarket filter elements. The filter has a conical design with a customized cover plate to fit the unique housing. The strong plastic inner liner provides rigidity and guides the element into the housing. Combined with the plastic outer liner, the element is robust yet light weighted. For optimal On-Road performance flame retardant and high efficient cellulose media is inserted, Although the element is conical with axial positioning systems, the sealing is achieved by the radial seal. The end cap and seal are combined into one, The flexible sealing material creates a sure-fit and simplifies maintenance.

Engine Air Replacement Filters



Primary Filter Cross-Reference



Trimury rittor or odd itolor choo			
OE brand	Donaldson Primary	Primary/OE	
MB Actros	P784457*	0040943504, 40943504, 4760940004, A0040943504, A4760940004	
MAN TGA	P782936*	81084050021	
DAF CF65	P782328*	1385791, 1346885	
DAF CF85	P784525*	1363024	
Iveco Eurocargo	P782880*	42471166, 42553257, 504000160	
Iveco Eurocargo	P782881*	42471161, 42553256	
Iveco Stralis	P785352*	2996162, 41272124, 41270082, 5801313604	
MAN Bus	P784198*	81083040101	
Iveco Bus	P784456*	42537392, 42637392, 500394100	
Evobus	P786421*	0030941704	
MAN Bus	P789377*	81084050029	

^{*}Flame retardant media

Superior AdBlue® Filtration

In order to meet current and future Exhaust Emission Regulation, Selective Catalytic Reduction (SCR) are fitted with liquid AdBlue® (urea) injection systems which require high performance and reliable filtration. AdBlue® is a mixture of 32,5% urea and 67,5% demineralized water used to control NOx emissions. When injected in SCRs, NOx will convert into harmless N2 and H2O. Donaldson provides industry-leading filtration expertise for AdBlue® liquids.

X770733 for Denoxtronic 1.0 AdBlue® Filter Kit for AfterMarket Usage



Primary Application:
DAF 1819795
Fits: Bosch Denoxtronic 1.0
Urea Injection System
Overall Dimensons:
69mm outer diameter
75mm overall length
33mm seal diameter

X770734 for Denoxtronic 2.0 AdBlue® Filter Kit for AfterMarket Usage



Fits: Bosch Denoxtronic 2.0 Urea Injection System Overall Dimensons: 66,5mm outer diameter 97,5mm overall length 22mm seal diameter

X770733 Competitive Cross References

NITOTOO GUIIIPELILIVE GTUSS NEIETEIIGES			
Name	Part No.	Name	Part No.
BALDWIN	PE5270	MANN & HUMMEL	U6202XKIT
BOSCH-REXROTH	F00BH40012	MANN & HUMMEL	U6202YKIT
BOSCH-REXROTH	F00BH40096	MANN & HUMMEL	U6203YKIT
BOSCH-REXROTH	F00BH40230	MANN & HUMMEL	U6204XKIT
CUMMINS	3967874	U6204XKIT	U6204YKIT
DAF	1649425	MAHLE	MH016
DAF	1674458	NEOPLAN	81154036015
DAF	1674485	NISSAN/UD TRUCKS	20421NY00J
DAF	1789050	NISSAN/UD TRUCKS	20421NY01J
DAF	1815766	SCANIA	1545482
DAF	1819795	SCANIA	1761034
DAF	18819795	SCANIA	1795459
DAF	42553548	SCANIA	1852188
DAF	649425	SCANIA	1907422
DIESELTECHNIC	545175	SF-FILTER	SAB540SET
HENGST	E101UD178	SOLARIS BUS	120322535
IVECO	42553548	VOLVO	20713630
IVECO	42561571	VOLVO	20713636
IVECO	42562233		
JURA FILTRATION	SN70332		
MAN	80154036089		
MAN	81154036015		
MAN	81154036089		

X770734 Competitive Cross References

Name	Part No.	Name	Part No.
AGCO	V837062993	MANN & HUMMEL	U630XKIT
BALDWIN	PE5271	MAHLE	MH017
BOSCH-REXROTH	1457436006	NEW HOLLAND	84254852
DEUTZ	2934622	RENAULT TRUCKS	7420877950
DIESELTECHNIC	214900	RENAULT TRUCKS	7420877953
FLEETGUARD	3986767	RENAULT TRUCKS	7421333098
HENGST	E100UD160	SCHUPP AG	SAB541
IVECO	2997594	SF-FILTER	SAB541
IVECO	42555073	VOLVO	20876498
IVECO	42555548	VOLVO	20876502
IVECO	42561605	VOLVO	21333097
JURA FILTRATION	SN70318		

Eco-Friendly, High-Performance Engine Liquid Products

Manufactured using eco-friendly construction relying on superior direct-bonding technology, these metal free elements utilize high grade Donaldson media such as our Synteq™ media technology which offers superior efficiency and high performance water separation. Filters using Synteq™ media also give engine fuel pumps and injectors a higher level of protection.



Synteq[™] media

Donaldson's third generation of Synteq $^{\text{TM}}$ fuel filter water separator media uses both cellulose and melt-blown synthetic layers to achieve the highest levels of fuel filtration performance. This double-layered media has increased particulate holding capacity and is a high performance water separator. It has the ability for high efficiency emulsified water separation and can be used in both the suction and pressure sides of fuel systems — making it an ideal choice for critical applications or extended service intervals.



Direct bonding technology

Eco-friendly construction of this latest generation of engine liquid filters achieved in part by direct bonding technology offers significant benefits, including:

- Direct bonding of pleats in end cap material offers a higher effective media area, robustness and a leak-free element
- ► End cap material, reinforced with glass fibers, ensure higher strength, heat resistance and durability
- Ultrasonically welded seam seals provide a strong reliable bond
- 2K molded rubber seal for oil filters using a leak-tight material provide a reliable seal
- Laser marked identification presents clear printing that won't fade overtime or when exposed to hot liquids.

Donaldson Blue™ filters offer Twice the Distance Guarantee for on-highway fleets

Ultra-Web® Advantages

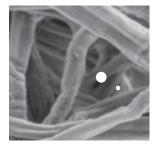
- ▶ Engineered to perform in extreme temperature and humidity conditions, unlike ordinary nanofibers.
- ▶ Proven in the real word used on diesel engines for nearly two decades.
- On-highway trucks are guaranteed to go twice the distance compared to standard cellulose filters.

CELLULOSE MEDIA

Cellulose fibers are larger than Ultra-Web® nanofibers and have larger spaces between the fibers, which causes contaminant to load in the depth of the media and plug the airflow path, resulting in higher restriction and less capacity.

Conventional Cellulose





ULTRA-WEB® MEDIA

Ultra-Web® nanofibers have submicron diameters and small interfiber spaces, which result in more contaminant being captured on the surface of the media, promoting lower restriction and longer filter life.

ULTRA-WEB



Enlarged top views of media (at he same magnification) White circles represent the diameter of a 2µ and a 5µ particle.

Conventional Cellulose BLUE

20 Years of Ultra-Web® Proof

For **on-road trucks**, Donaldson Blue[™] air filters extend service intervals. We offer a **"Twice the Life"** guarantee for on-road vehicles. For **mining haul trucks**, air filters equipped with Ultra-Web[®] media deliver:

- Higher capacity (5x) for longer filter life
- Higher efficiency for longer engine life
- Extended maintenance intervals for lower operating costs.

Donaldson Gen2 DPF Pulse Cleaner

IN SHORT

Ideal for truck and bus

maintenance Facilities.

A simple, automated process that quickly and safely cleans diesel praticulate filters

Diesel particulate filters (DPF) require

Most vehicles using a DPF system will have an on-board guide your DPF cleaning schedule. This unit is designed to minutes. It has no special power requirements and saves

SIZE. WEIGHT AND CLEARANCE

711 mm Width x 1 092 mm Depth x 2007 mm Height

Clearance requirement: 101,6 mm on left side; 304,8 mm on rightside for crank handle and the back side for filter service.

Unit Weight: 322 kg.

ELECTRICAL AND COMPRESSED AIR REQUIREMENTS

Standard connection: 230 V - 7 A Clean, dry compressed air source: 6.2 bar minimum shop air at 113 liter/min

REPLACEMENT PARTS

Ash Receptacle and Test Sleeve

FINISH (interior and exterior)

Hi-gloss, powdered coating finish

CE AND ATEX APPROVED





routine cleaning to remove ash that builds up over time.

filter service monitor to indicate the filter condition and clean the DPF by removing ash and soot in less than 15 the on-going expense of a filter cleaning service.

Specifications

Features

ash from the DPF.

ash receptacle.

Unique hood design

and 13-20" length).

operation.

or less.

1 hour.

Uses high-volume, low-pressure

Captures soot/ash in disposable

Self-contained cleaning system

escaping into ambient air during

Short process time - 15 minutes

accommodates Donaldson and

Adapters for other DPF sizes and

other DPFs (11-15" diameter

unique shapes are available. Standard electrical connection.

Installation time - approximately

prevents contaminant from

pulse to dislodge unburned soot/

14 ▶

Donaldson Thermal Regenerator

High temperature cleaning process aimed at plugged diesel particulate filters

DPF are sensitive to exhaust temperature and can plug unless they are exposed to minimum exhaust temperatures that will burn soot they capture.

For extremely plugged filters which require a more intense cleaning process, Donaldson offers the DPF Thermal Regenerator, a specially- designed unit that removes hydrocarbons and unburned soot through a timed heating and cooling cycle.

Complementary action for extremely plugged particulate filters. Often necessary for vehicles used in urban areas.

IN SHORT

Features

- Burns soot/hydrocarbons off filter.
- Heating cycle enhanced with low-volume, low pressure air pulse.
- Enclosed cleaning system.
- Collection hopper for ash.
- Built-in safety features.
- Accommodates competitive filters and Donaldson filters (DPF sizes from 11" to 15" diameter and up to 20" long).

Specifications

SIZE, WEIGHT AND CLEARANCE

711 mm Width x 1092 mm Depth x 1740 mm Height

Clearance requirement: 305 mm on all sides.

Unit Weight: 227 kg.

Requires and exterior vent connection to roof our outside wall.

ELECTRICAL AND COMPRESSED AIR REQUIREMENTS

Power Supply: Single phase 230 V - 32 A - 50 Hz

Clean, dry, compressed air source: 6.2 bars at 7 m³/h

REPLACEMENT PARTS

Thermal shields for diesel particulate filters

FINISH (interior and exterior)

Hi-gloss, powdered coating finish

CE APPROVED





^{*} A diesel particulate filter must be pulse cleaned before you start the process and after it's complete.

Donaldson Engine Aftermarket Warranty



More information on the European Block Exemption can be found via ec.europa.eu > European Block Exemption Donaldson Product Warranty is available via www.emea.donaldson.com/en/engine/support/datalibrary/063051.pdf

European Block Exemption

The EC Block Exemption Regulation (BER) gives motorists for on-road vehicles the flexibility to select where they can get their on-road vehicles serviced. The BER also covers service and maintenance during the warranty period.

Donaldson Confidence

We take the common sense approach. In the unlikely event that an engine issue is caused by a defect in the material or workmanship of a Donaldson filter, you have the protection of your Donaldson warranty. We'll make sure that your engine is returned to its previous condition.

And you can rest assured that the products we make use only the best components, media and technology, as well as the most consistent manufacturing processes, to ensure that every hardworking Donaldson filter you purchase is there to protect your engines and equipment.

You need effective filtration — and you want it all from one supplier

When it's time for filter replacement, Donaldson provides the right combination of quality and value to help you operate efficiently.

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.

Depend on Donaldson when every operating hour counts!

You Have a Choice!

You can always choose top-quality Donaldson filters designed specifically for your engines and equipment, and as long as you change the filters according to the engine manufacturer's recommendations Donaldson filters will not void your engine manufacturer's warranty.

Donaldson Engine Aftermarket Warranty

Donaldson warrants its Aftermarket products against failure due to defects in materials and workmanship for the period specified under Terms and Conditions for the particular product.

Donaldsons obligation under this warranty covers replacing the failed product, including transportation charges, only. If the Donaldson product failure is the sole and direct cause of damage to the equipment on which the product was properly installed, Donaldson will reimburse reasonable costs to restore the equipment to the condition it was in immediately before the failure.

This warranty does not cover failure due to misapplication, misuse, abuse, neglect, rust through and corrosion (mufflers), improper service practices or non-Donaldson approved modifications. Engine and equipment manufacturers' warranties remain in effect when Donaldson products are used.

Donaldson must be notified in writing of any claims covered by this warranty within one year of the date of failure. Donaldson, at its discretion, will either physically visit the site where the alleged failure has been found or, request that all parts, Donaldson and other relevant parts, be shipped prepaid to its General Office, in care of the Product Lab or as otherwise specified.

Terms & Conditions

Warranty coverage begins at the date of installation to the original end-user, and expires after the indicated period or kilometres, whichever occurs first.

More detailed information can be found in the Donaldson Europe Operating Guide or can be received upon request.

Warranty Length by Product

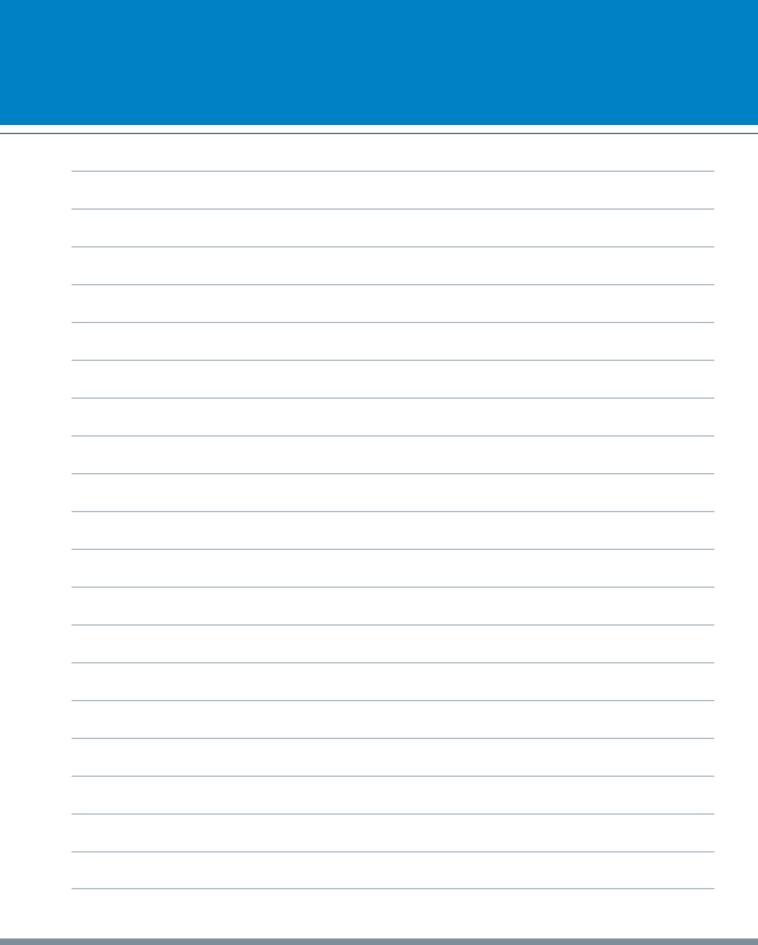
Filtration Products	Warranty Period
Air Cleaner Housing & Accessories	1 year
Liquid Filter Assemblies & Accessories	1 year
Air & Liquid Filters	Maximum 1 year

Exhaust Products	Warranty Period
Exhaust Assemblies On-Road	2 years - 300.000 kilometers
Exhaust Assemblies Off-Road	1 year - 1.500 working hours
Exhaust Accessories	1 year

NOTE FROM DONALDSON:

Have copy of our catalogues wherever you go, by browsing to the following links:

- www.donaldson-catalogue.com/air
- www.donaldson-catalogue.com/hydraulic
- www.donaldson-catalogue.com/liquid
- www.donaldson-catalogue.com/agriculture
- www.donaldson-catalogue.com/truckBus
- www.donaldson-catalogue.com/forklift
- www.donaldson-catalogue.com/exhaust



Filters that keep you moving.

You need effective filtration to keep your fleets in operation - and you want complete coverage for your entire fleet from one supplier.

Donaldson offers a full range of filtration and exhaust system products for truck and bus equipment. Our products enhance engine and equipment performance while protecting the environment in which they operate.

Donaldson Delivers.

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

- Industry-Shaping Technology uncompromising product quality
- Trusted by OE's preferred by pro's
- Broad Product Coverage air, lube, fuel, coolant and hydraulic filters, plus exhaust accessories and more
- Consistent Product Availability the filters and accessories you need, when you need them
- Comprehensive Customer Service by experienced and knowledgeable sales and technical support people
- Warranty and Service comprehensive coverage and far-reaching support



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