

**LOWER YOUR  
OPERATING COSTS  
WITHOUT  
COMPROMISING  
HEALTH**



**DA200 (STANDARD LIFE / HIGH EFFICIENCY)  
DA200-LL (LONG LIFE / HIGH EFFICIENCY)**

**DIESEL EXHAUST FILTERS FOR  
VLI DRIFTRUNNER / BRUMBY VEHICLES**

- Microfresh® Diesel Exhaust filters offer the highest level of nanoparticle protection available

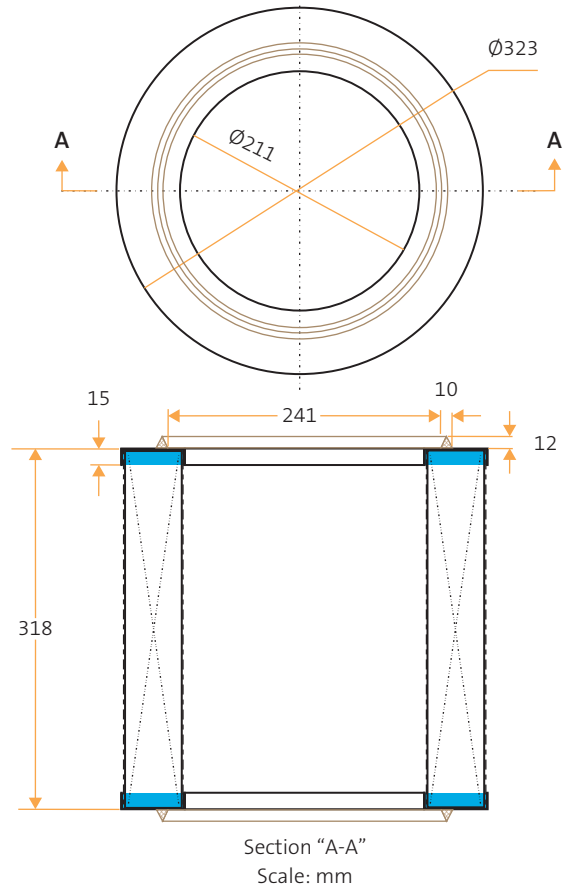
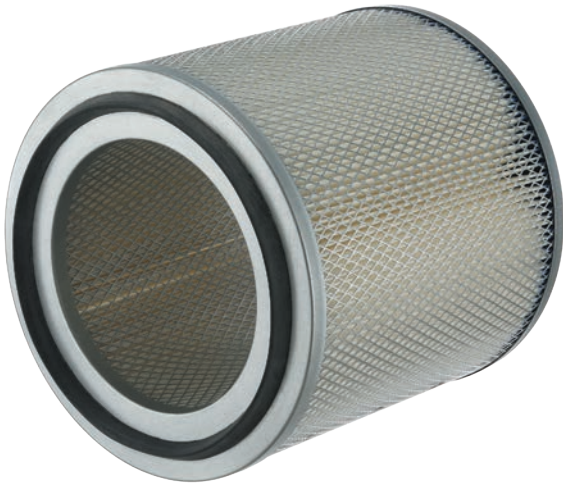


**FREUDENBERG  
FILTRATION TECHNOLOGIES**

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# PRODUCT APPROVALS

MDR 155331 DES-0



Alternate filter for:

- 1 5-04106101 (set no. 5-04108101) in MDR 090376 DES
- 2 5-04106101 (set no. 5-04108101) in MDR 124827 DES

## TESTSAFE AUSTRALIA REPORT NO: 35280A

Date of Issue: 19/06/2015

Excerpt from Table 9: – Driftrunner/Brumby NRSC Specific EC Emissions determined by AVT-530

	UNITS	NO FILTER	DA200	DA200LL	COMPETITION FILTER 1
DPS Mine Ventilation Calculations (EC)	m <sup>3</sup> /s	23.2	0.7	3	10.7

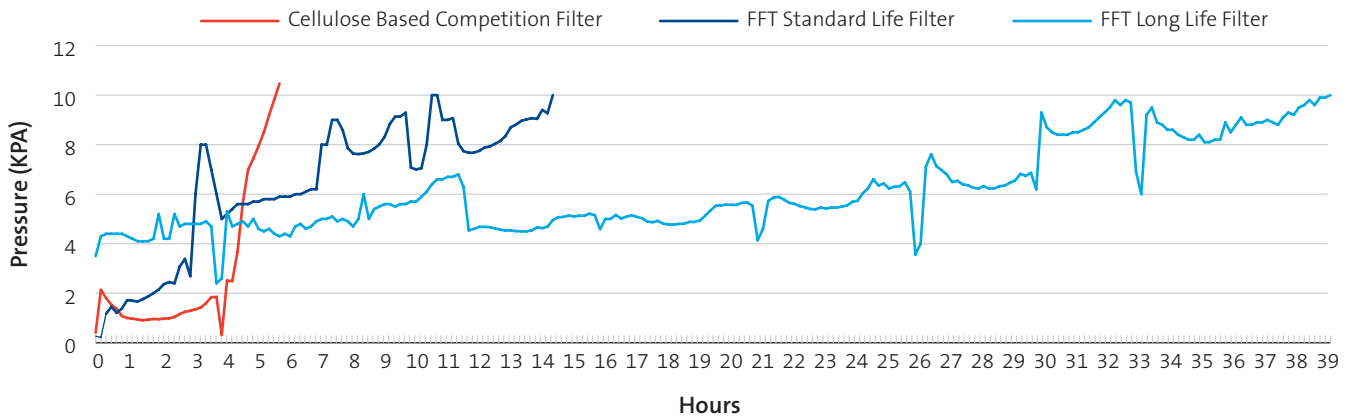
Note: The diesel particulate signature is calculated for both DP and EC, using specific emissions as specified in MDG 29:2008 using a concentration of 0.1mg/m<sup>3</sup> for EC and 0.2mg/m<sup>3</sup> for DPM

## CRITICAL OPERATING TEMPERATURES

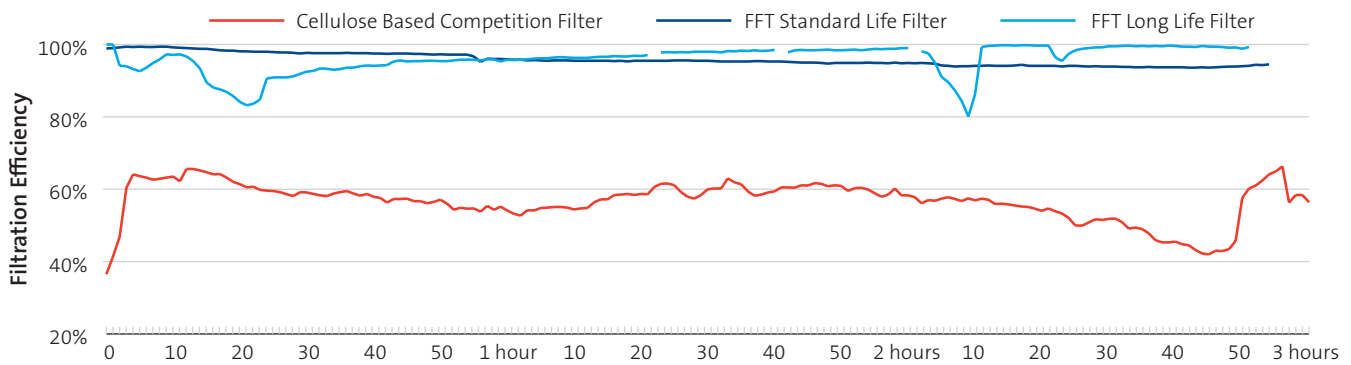
	DA200 (Standard Life)	DA200LL (Long Life)
Maximum Continuous Operating Temperature:	140 Deg°C	150 Deg°C
Minimum Auto Ignition Temperature (New Filter):	425 Deg°C	410 Deg°C
Minimum Auto Ignition Temperature (Used Filter):	420 Deg°C	400 Deg°C
	As per NSW Trade & Investment T15-00354	As per NSW Trade & Investment T15-00354

# FILTRATION PERFORMANCE COMPARISON

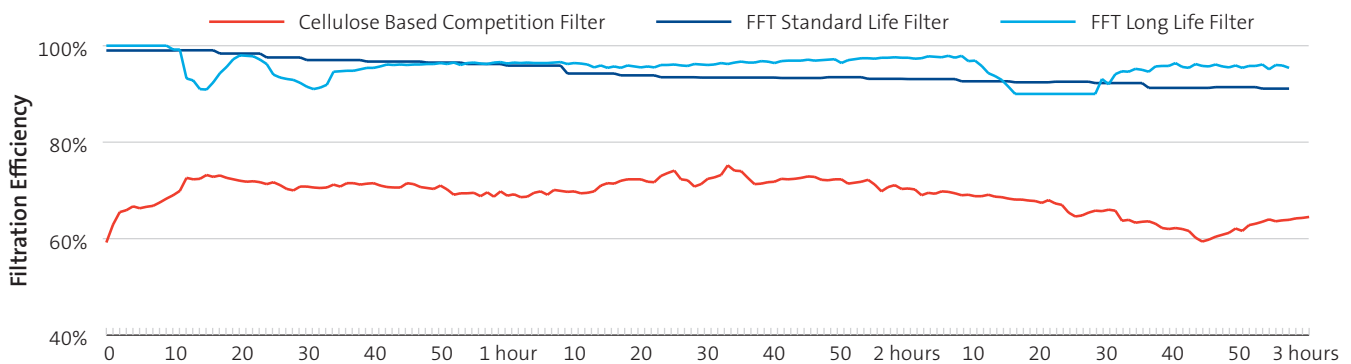
## PRESSURE INCREASE OVER TIME



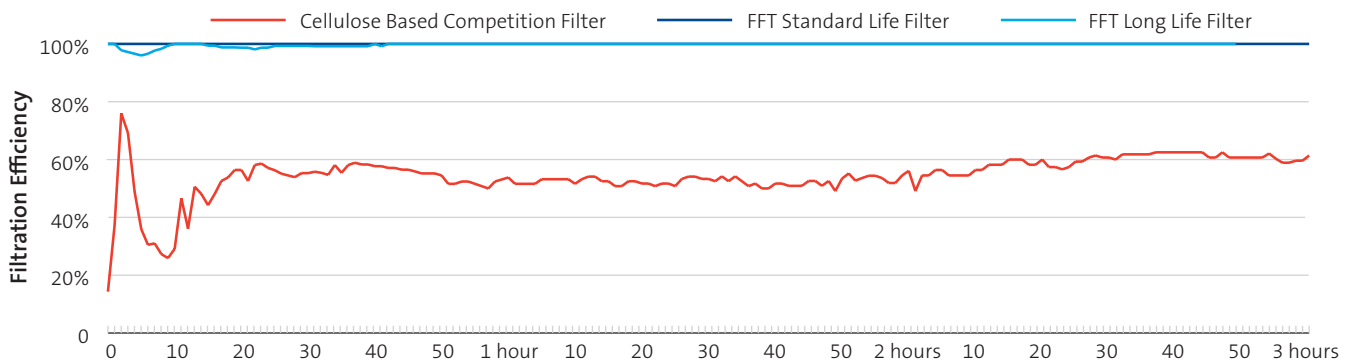
## FILTRATION EFFICIENCY OF 50 NANOMETRE SIZED PARTICLES



## TOTAL PARTICLE NO. FILTRATION EFFICIENCY



## TOTAL MASS REDUCTION FILTRATION EFFICIENCY



All data from independent testing conducted by Peak3 Pty. Ltd. (7/2013-7/2014) on Waterbrake Dynamometer setup  
 Engine: CAT C7 fitted with filter housing and run at exhaust flow to suit Competition / DA200 / DA300 (std. & LL) filters  
 Analysis equipment: MAHA MPM-4M for particle mass measurement, EEPS for particle number measurement  
 Steady state testing (some parameter fluctuations due to use of batch scrubber with variable water level)

# DA200 / DA200LL

## DIESEL EXHAUST FILTERS FOR VLI DRIFTRUNNER / BRUMBY VEHICLES

### Used Filter Disposal

- Freudenberg Filtration Technologies'® Microfresh Diesel Exhaust Filters have been classed as solid industrial non-hazardous waste suitable for disposal in landfill
- Due to use of polymer based media, there is potential for used filters to be processed in a waste heat recovery plant that runs turbines for power generation, metal from the filters can then be separated and recycled.
- Whilst filter disposal cost is negligible in regions where waste is measured by mass, disposal cost via volume basis (even at reduced rates due to recycling) can be significant.

### Solutions

- Reduce volume of filters (I.e. Long life / high efficiency filters)
- Talk to you waste contractor and arrange weight basis disposal
- Reduce waste volume through crushing.

### Washing of Diesel Exhaust filters

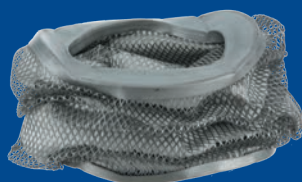
Freudenberg Filtration Technologies do not recommend the washing of used Diesel Particulate Filters due to;

- Ongoing OHS / Environmental risks / lack of process compliance (ISO14001)
- Washing filters reduces filtration efficiency with each wash (limit number of washes)
- Request a detailed filtration efficiency report after each wash.



### Hydraulic Filter Crushing System

- Cycle time of 30 seconds for crush of 5 filters
- The unit is compliant with Australian Safety Regulations AS3000 / AS 4204.1
- Crushing chamber fully sealed
- Filters can be crushed in their disposal bag (bags big enough for air movement).



### FFT microfresh® filters

- DA100** filters for Sandvik, Setco and GE's
- DA200** filters for VLI Driftrunners and Brumby's
- DA300** filters for VLI Jug-A-O's
- DA500** filters for PPK Coal Tram's

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