



Technical Service Bulletin

Unique ID No: DES2009-TBSA-04

Rev: 0

Subject: Exhaust Particulate Filter Assembly Service

Date: 11-12-09

Applicable to: Diesel Engine System MDR 090376 DES (DES 08)

Note: Minimum PPE required to carry out any inspections contained in this TBSA shall be protective clothing & footwear, safety glasses, hearing protection & any site specific requirements. A JSA or equivalent should be carried out prior to performing these tasks.

Description:

Two replaceable element type filters are fitted to each diesel engine system to capture exhaust particulate. These elements require replacement when certain exhaust backpressure levels are reached.

VLIDD Recommendations:

- It is the responsibility of the owner/operator to adequately service and maintain the exhaust filtration system.
- Appropriate PPE to be worn when replacing filters.
- Use only OEM supplied parts
- The dash mounted exhaust backpressure gauge indicates the condition of the filter elements
- Normal operation (Green zone) 0 - 7.0 kPa.
- Recommended filter change (Yellow zone) 7.0 – 8.5 kPa
- Max allowable backpressure (Red zone) 8.5 – 10 kPa.

Note: Blocked filter bypass operates at an indicated pressure of 10 kPa.

Procedure:

The removal and replacement procedure is as follows:-

1. Ensure machine is in a safe designated area for service.
2. - Select neutral gear & apply park brake
- Bring engine to flight revs

- Read back pressure on gauge (see above recommendations)



3. Shutdown & Isolate machine as per site specific procedures



Note: Before carrying out filter change, fit mask supplied with replacement filter kit

4. Release retainers & remove lid on particulate filter canister. Beware of potential pinch points and take care when lifting lid.



5. Unscrew retaining knobs & remove filter retaining caps.



6. Remove filters & seal in bags provided. Dispose of in an appropriate manner.



7. Fit new filters to canister, ensure correct fit and location at base. Reposition filter retaining caps & secure using retaining knobs.



8. Inspect condition of seal and ensure in serviceable condition. Carefully lower & secure lid using retainers.



9. Select neutral, start machine, bring engine to flight revs, ensure back pressure gauge is reading close to 0kpa.



Attention:

A filter bypass relief is fitted on the inside of the canister in the engine bay. The relief is an engine protection device, and will operate for indicated exhaust backpressure in excess of 10 kPa.



The water tank is pressurised to ensure the Exhaust Conditioner has constant water supply with a pressure release cap fitted to relieve excess pressure. Filling of the water tank is carried out via the cap, located in the top of the tank.

Please ensure this document is circulated to all relevant personnel within your organisation.

Should you have any further queries please contact your VLI Diesel Representative.

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