



Truck Analysis & Diagnostic Service Report

Heavy-Duty DPF / DOC / SCR Restoration

REPORT SUMMARY

REPORT DATE {{report_date}}	SERVICE DATE {{service_date}}	WORK ORDER # {{work_order_number}}	TECHNICIAN {{technician_name}}
CUSTOMER / FLEET {{customer_name}}	CONTACT {{customer_contact}}		

FINAL STATUS — {{final_status}}
{{verdict_summary_line}}

1. Vehicle Identification

VIN: {{vin}}	Make / Model: {{make_model}}
Year: {{year}}	Engine: {{engine}}
Odometer: {{odometer}}	Software Used: {{diagnostic_software}}
Unit / Fleet #: {{unit_number}}	License Plate: {{plate}}

2. The Problem — Pre-Cleaning Baseline

Upon initial diagnostic scan, the vehicle's aftertreatment system was in a critical state of failure, preventing normal operation. The findings below summarise the pre-service condition captured directly from the engine ECM.

- **System Restriction:** Zone {{restriction_zone}} ({{restriction_severity}}). {{restriction_explanation}}
- **Soot Load:** {{soot_before}} (Computed). {{soot_explanation}}
- **Operational Impact:** {{operational_impact}}

Active Fault Codes

SPN	FMI	Count	Description
{{spn_1}}	{{fmi_1}}	{{count_1}}	{{desc_1}}
{{spn_2}}	{{fmi_2}}	{{count_2}}	{{desc_2}}

SPN	FMI	Count	Description
{{spn_3}}	{{fmi_3}}	{{count_3}}	{{desc_3}}
{{spn_4}}	{{fmi_4}}	{{count_4}}	{{desc_4}}

3. The Solution — DPF Cleaning Surrey Services Process

To resolve this condition, we deployed our proprietary {{process_name}} process. The procedure is engineered for deep-cell restoration of the entire aftertreatment flow path:

- Advanced Chemical Dissolution:** Our specialised formulation penetrates the internal ceramic honeycomb structure to dissolve the chemical bonds of ash, soot, and oil residues that resist heat-only regeneration.
- On-Vehicle Restoration:** The system is cleaned in-situ, eliminating the risks of damaged sensors, broken mounting brackets, or leaking exhaust clamps associated with filter removal.
- Comprehensive Cleaning:** The process clears the entire flow path — DOC, DPF, and SCR — restoring the vehicle's ability to breathe naturally and regenerate on schedule.

4. The Results — Post-Cleaning Verification

Following the cleaning procedure and a successful stationary regeneration, the diagnostic data confirms full system recovery. All key aftertreatment metrics returned to within OEM specification.

Diagnostic Metric	Before (Plugged)	After (Cleaned)	Improvement
DPF Differential Pressure (psi)	{{dp_before}}	{{dp_after}}	{{dp_improvement}}
Soot Load (%)	{{soot_before}}	{{soot_after}}	{{soot_improvement}}
Regen Zone	{{regen_zone_before}}	{{regen_zone_after}}	{{regen_improvement}}
DPF Outlet Gas Temp (°F)	{{outlet_temp_before}}	{{outlet_temp_after}}	{{outlet_temp_improvement}}
Engine Derate Status	{{derate_before}}	{{derate_after}}	{{derate_improvement}}
Active Faults	{{faults_before}}	{{faults_after}}	{{faults_improvement}}

5. Final Diagnostic Clearance & Verification

The following electronic verification protocol was completed to confirm the vehicle is ready for return to service:

- Comprehensive Fault Clearance:** All active and stored fault codes ({{cleared_fault_codes}}) were successfully cleared. Diagnostic dashboard confirms 0 Active Faults.
- Aftertreatment Maintenance Calibration:** Performed to synchronise the Ash Volume counter with the physically cleaned state of the filter.

- **Thermal Validation:** Stationary regeneration verified the restored {{dp_after}} differential pressure and successful thermal rise; Regen Zone updated automatically from {{regen_zone_before}} to {{regen_zone_after}}.
- **Lamps & Status:** All dash-level warnings — including Stop Engine and High Exhaust Temperature lamps — extinguished. Vehicle is no longer in derate.

FINAL STATUS — {{final_status}}

{{verdict_summary_line}}

6. Recommendations & Next Service Interval

To preserve the gains of this restoration and reduce the risk of recurrence, we recommend the following preventative maintenance plan tailored to this unit's duty cycle and mileage profile:

- **Next preventative DPF clean:** {{next_service_interval}} from this service date, or sooner if soot load exceeds 60% on routine scan.
- **Operating recommendation:** {{operating_recommendation}}
- **Items to monitor:** {{items_to_monitor}}
- **Additional notes:** {{technician_notes}}

7. Sign-Off

This report has been reviewed and authorised by the technician of record and confirmed by Edmonton DPF Services.

{{technician_signature}}

TECHNICIAN — name, signature, date

{{shop_rep_signature}}

SHOP REPRESENTATIVE — name, signature, date

Appendix A — Diagnostic Evidence (JPRO Captures)

The screenshots below document the truck's electronic state at each stage of the service. Replace each placeholder with the corresponding JPRO capture; captions can be lightly edited per truck.

A.1 Pre-Service Dashboard

[INSERT SCREENSHOT — Figure 1]

Paste JPRO capture here, sized to width

Figure 1. Pre-service vehicle overview — Active fault list visible, DPF Soot Level High, DPF Derate High; baseline odometer and engine hours captured.

A.2 Pre-Service Aftertreatment Overview

[INSERT SCREENSHOT — Figure 2]

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Figure 2. Aftertreatment diagnostic at lockout — DPF differential pressure, Regen Zone, and Inhibit State at the time of arrival; soot load percentage shown.

A.3 Active Stationary Regeneration

[INSERT SCREENSHOT — Figure 3]

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Figure 3. Stationary regeneration in progress — DPF inlet/outlet gas temperatures climbing through target range; active regen timer and DEF level captured mid-cycle.

A.4 Post-Service Aftertreatment Overview

[INSERT SCREENSHOT — Figure 4]

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Figure 4. Aftertreatment diagnostic post-clean — Soot Load returned to baseline, Regen Zone reset, DPF differential pressure restored to OEM specification.

A.5 Post-Service Dashboard

[INSERT SCREENSHOT — Figure 5]

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Figure 5. *Post-service vehicle overview — All warning lamps cleared, derate removed, vehicle returned to full power and full earning potential.*

Appendix B — Work Order Summary

A typed summary of the signed work order accompanies the customer-signed consent form attached as the final page of this report.

Field	Detail
Customer / Company	{{customer_name}}
Customer Phone	{{customer_phone}}
Customer Email	{{customer_email}}
Service Date	{{service_date}}
Service Charge	{{service_charge}} {{currency}} (plus applicable taxes)
Payment Method	{{payment_method}}
Shop Representative	{{shop_representative}}
Customer Signature on file	Yes — see attached consent form

The signed Work Order Customer Consent & Acknowledgment Form is appended as a separate page. The customer has acknowledged that this cleaning service is preventative maintenance and does not warrant any pre-existing or future mechanical or electronic faults outside of the cleaned components.

This report summarises diagnostic data captured from the vehicle's ECM via {{diagnostic_software}} at the time of service. It is provided for maintenance planning and reflects the state of the aftertreatment system at the point of measurement. It is not a warranty of future component performance and does not cover unrelated mechanical or electronic faults.