

Customer Care **1-877-427-7278**

Exclusive U.S. YANHOOL Distributor

The following excerpt from the Van Hool Operating Manual is reprinted here for your convenience to inform you of the EPA '07 Regeneration Process for the <u>CAT C13 2007 Engine</u>.

5

Driving



Exhaust aftertreatment

Introduction

Your vehicle has been equipped with a particulate filter (DPF).

Most of the soot particles containing carbon and ash are captured in the DPF. The accumulated carbon disappears if the particulate filter is heated to the self-cleaning temperature (approx. 570°F). Once this temperature is reached, the carbon reacts with the nitrogen dioxide and burns to become carbon dioxide. This process is called regeneration.

If the regeneration happens while driving, it is called automatic regeneration. However, if the self-cleaning temperature is not reached while driving (e.g. due to frequent stopping), you have to intervene to make the regeneration take place. To this end, go for a ride driving at high speed (highway) during at least 20 minutes or carry out a stationary regeneration.

The "DPF regeneration" symbol appears on the multifunctional display if you have to intervene to make the regeneration take place.



WARNING!

During a regeneration, the exhaust temperature can amount to 1500°F. The high exhaust temperature can cause material in the flow of the exhaust pipe to start burning. Stay clear of the exhaust, burns hazard!

continued on next page

007165 en-US



Messages on multifunctional display

Symbol	Message
	DPF regeneration required
	Phase 1: The symbol appears to indicate that the particulate filter has to be regenerated at the next opportunity.
	Phase 2: If you continue driving without carrying out a regeneration, the symbol will start to flash after a while. Carry out the regeneration immediately.
	Phase 3: If you still do not carry out the regeneration, the "ENGINE WARNING" message also appears after a while. Immediately carry out a stationary regeneration, if you do not, engine power will be reduced.
	Phase 4: If you still do not carry out the stationary regeneration, the "STOP ENGINE" message will appear after a while. Immediately carry out a stationary regeneration, if you do not, the engine will be shut off.
	NOTE: Also appears for a few seconds when ignition is switched on.
\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	High exhaust temperature.
	The fact that this symbol appears does not mean that there is an engine problem. It only warns you of a high exhaust temperature due to a regeneration.
	Make sure the exhaust pipe is not directed toward a surface that will burn or melt at high temperature (grass,, asphalt!)
	NOTE: Only appears at low vehicle speed.
	NOTE: Also appears for a few seconds when ignition is switched on.
DPF REGENER- ATION ACTIVE	The particulate filter goes through a stationary regeneration
DPF REGENER- ATION INHIBITED	DPF regeneration switch in regeneration inhibited position

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Dash switch

Switch	Function
REGENERATION	DPF regeneration switch
INHIBIT	Upper part pressed: regeneration inhibited
	Middle position: off
FORCE REGENERATION	Lower part pressed: to request a stationary regeneration

To request a stationary regeneration



Step

WARNING!

During regeneration, engine speed can increase up to 1 000 to 1 500 rpm.

NOTE: Only carry out stationary regeneration with warm engine (coolant temperature above 185°F).

Action

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1	Select an appropriate location to park the vehicle. Refer to "Appropriate location for stationary regeneration".	
2	Apply the parking brake.	
3	Make sure the transmission is in neutral position.	
4	Put chocks in front of and behind the wheels.	
5	Set up a safety area around the exhaust. Refer to "Safety area around exhaust".	
6	Carry out the actions below within a 35 seconds time limit.	
	Release the parking brake and reapply it.	
	Put transmission from N to D and back to N.	
	Press the lower part of the DPF regeneration switch during 5 to 10 seconds.	
	If allowed by engine electronics, the stationary regeneration is started. The engine speed increases. The "DPF regeneration" symbol disappears from the multifunctional display of the dash-board and the "DPF REGENERATION ACTIVE" message appears.	

continued on next page



Step	Action
7	WARNING! If an unsafe situation occurs, stop the regeneration process immediately by pushing the brake pedal or by switching off the engine. Regeneration is also stopped if you put the "DPF regeneration" switch in the "INHIBIT REGEN" position.
	Observe the vehicle and its immediate surroundings during regeneration.
	The regeneration process takes 20 to 40 minutes. The regeneration has succeeded if the engine speed automatically returns to

reappear.

If the "DPF regeneration" symbol reappears, the regeneration process has failed. In that case, ask for technical assistance.

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To inhibit/ interrupt regeneration

If regeneration causes hazardous situations (e.g. at a stop), you can inhibit/interrupt the regeneration process. To this end, press the upper part of the DPF regeneration switch.

On the multifunctional display of the dashboard, the text "DPF REGENER-ATION INHIBITED" appears and the "DPF regeneration" symbol starts to flash. Only use this position in special circumstances and for a short while.

Appropriate location for stationary regeneration

- Surface that will not start to burn or to melt under high temperatures (such as clean concrete; no grass or asphalt!);
- · Away from anything that can burn, melt or explode;
- Not near gas or vapors that can ignite, explode or contribute to a fire (such as LPG, diesel vapors, ...).

Safety area around exhaust

- If bystanders can access the area, set up barriers at least 5 ft away from the exhaust.
- If regeneration takes place in a confined space, connect an exhaust gas evacuation system to the exhaust pipe. The evacuation system has to resist temperatures of at least 1500°F.
- · Keep a fire extinguisher nearby.

007165 en-US

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5 - 27

Operating manual



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