

Document Title: Complete engine, removal	Function Group: 210	Information Type: Service Information	Date: 2014/4/27
Profile:			

Complete engine, removal

Op nbr 210-01

Lifting chains, min. 1000 kg



Before starting any work, allow the diesel engine to cool down in order to avoid burn injuries.

NOTE!

In general, all clamps that secure hoses and electrical cables must be removed.

1. Turn off the electric power with the battery disconnecter.
2. Remove the counterweight according to *Counterweight, removal* in Section 7.
3. Remove the plate **1**.

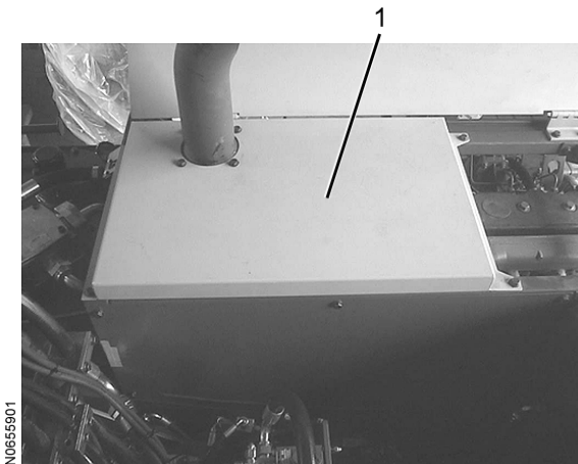


Figure 1
Engine compartment

1. Plate
4. Release the gas strut (hidden) from the engine hood **2**.
5. Remove the attaching bolts **1** and lift away the engine hood **2**.

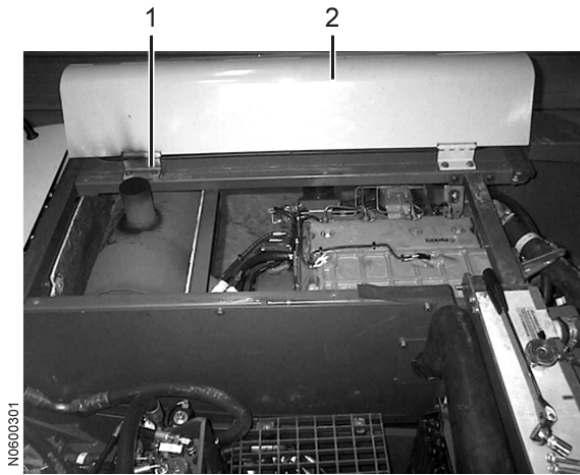


Figure 2
Engine compartment

1. Attaching bolts
2. Plate

6. Remove the plate **1**.

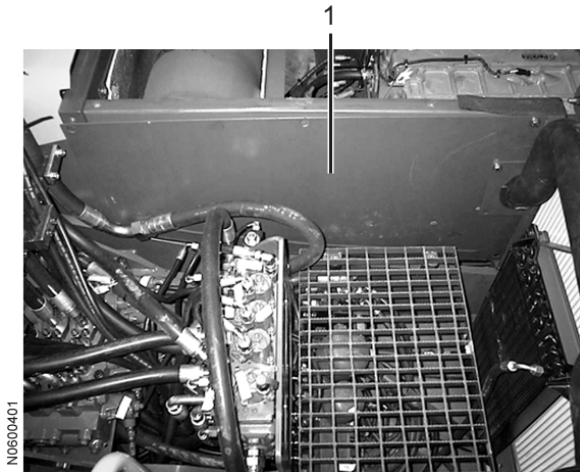


Figure 3
Hydraulic compartment

1. Plate

7. Remove the protective plate **1**.

8. Remove the silencer **2** with brackets and the pipe to the turbo.

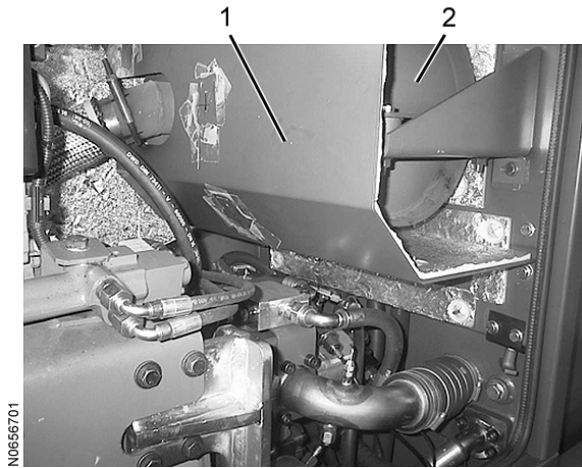


Figure 4
Engine compartment

1. Protective plate
2. Silencer

9. Remove the plate **1** underneath the engine.



Figure 5
Superstructure

1. Plate

10. Remove the rubber moulding **2** around the frame parts.

11. Remove the plate **4** and the frame parts **1** and **3**.

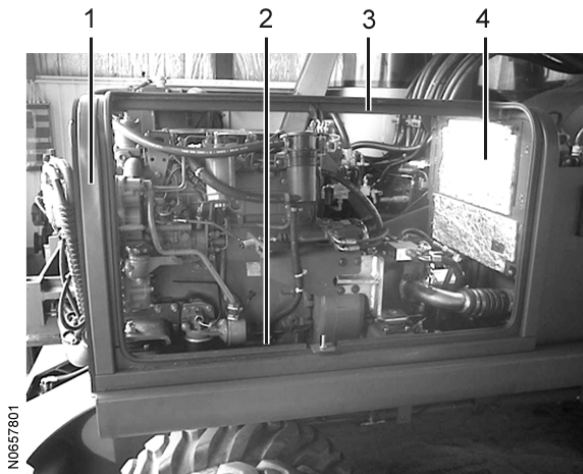


Figure 6
Engine compartment

1. Frame
2. Rubber moulding
3. Frame
4. Plate

12. Remove the frame part **1**.

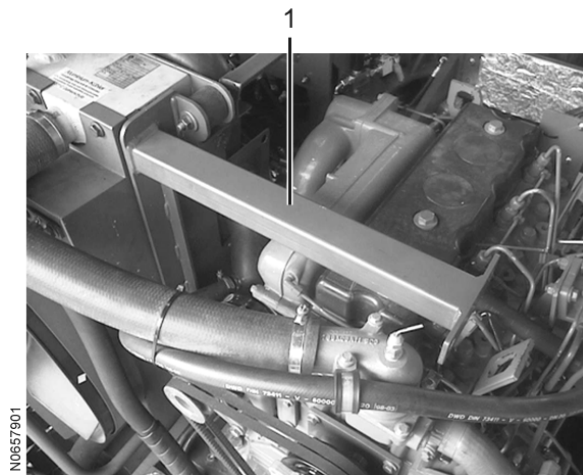


Figure 7
Engine compartment

1. Frame

13. Remove the connector **3** from the throttle control.

14. Remove the angle ball joint **1** from the retainer.

15. Remove the bolts **2** from the retainer and place the throttle control to the right of the hydraulic oil tank.

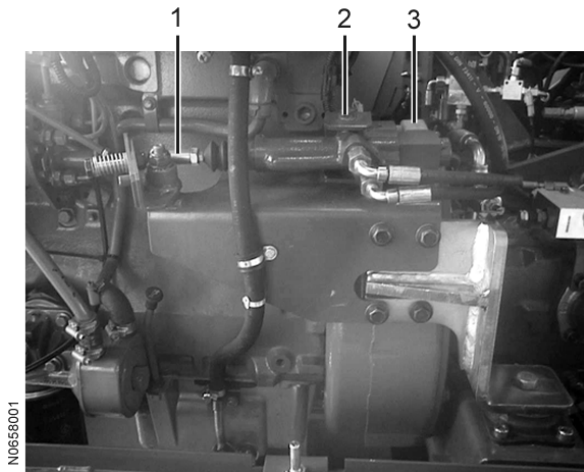


Figure 8
Engine compartment

1. Angle ball joint
2. Attaching bolts
3. Connector

16. Remove (if one is mounted) the compressor **1** from the engine, and remove the Vee belts **2**.

NOTE!

Do not disconnect any hoses from the compressor.

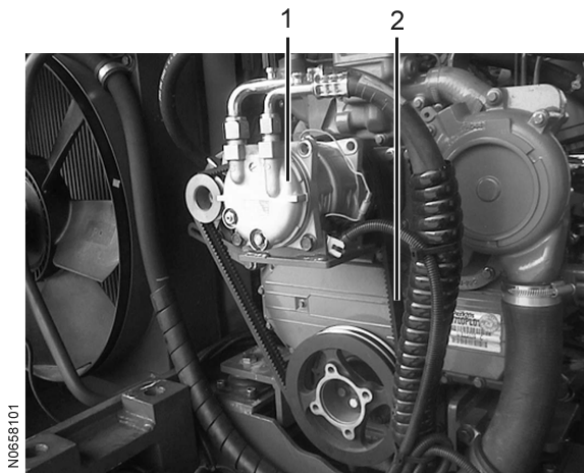


Figure 9
Engine compartment

1. Compressor
2. Vee belts

17. Disconnect the hose **1** from the engine and pinch the hose with the pliers **2**.
18. Connect a drain hose **3** on the hose connection **1** and drain the engine coolant into a container.

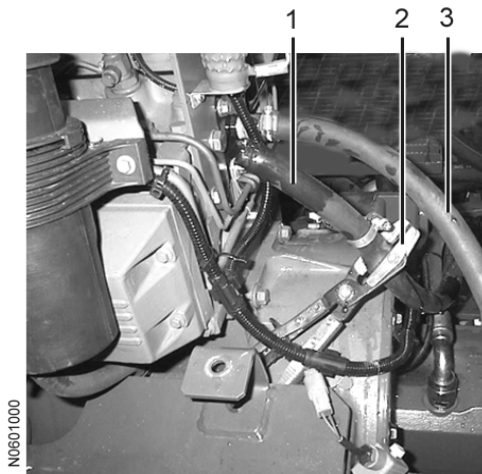


Figure 10
Engine compartment

1. Hose
2. Pliers
3. Hose

19. Remove the clamp **1** from the engine mounting.
20. Disconnect the hose **2** from the coolant pump.

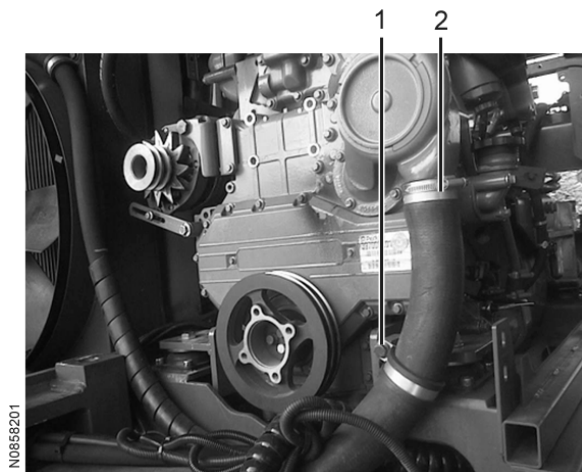


Figure 11
Engine compartment

1. Clamp
2. Hose

21. Fold the hose **1** and clamp it according to fig. 12, using a clamp.



Figure 12
Engine compartment

1. Hose

22. Remove the hose **1** from the engine and the hose **2** from the crankcase ventilation.

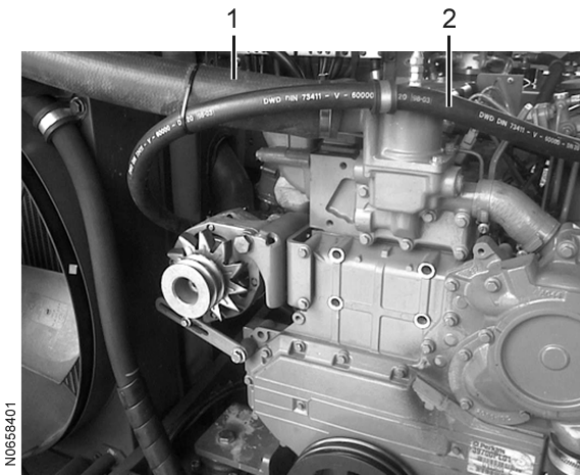


Figure 13
Engine compartment

1. Hose
2. Hose

23. Disconnect the hose **1** from the turbo.



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Figure 14
Hydraulic compartment

1. Hose
24. Disconnect the fuel lines **1** and plug the lines and connections.
25. Disconnect the cabling **2** to the starter motor.

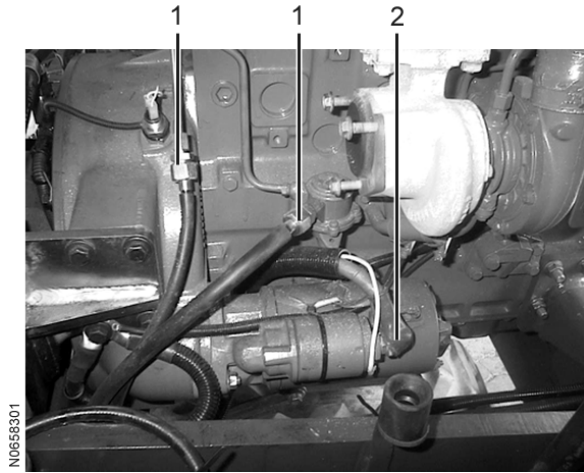


Figure 15
Engine compartment

1. Fuel lines
2. Cabling
26. Remove the electrical cables from the alternator **1**.

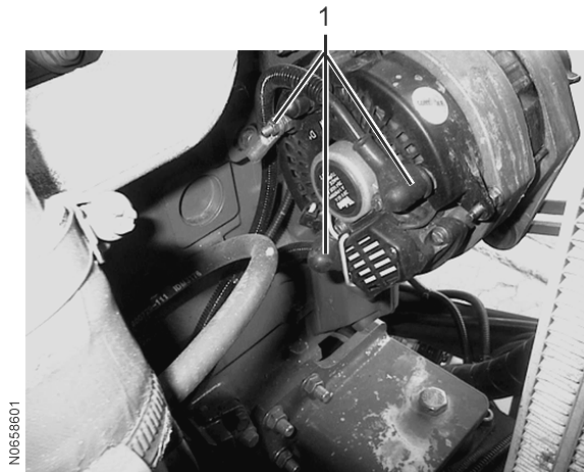


Figure 16
Engine compartment

1. Electrical cables
27. Mark up and disconnect the electrical cabling from the sensors **1** and the engine.

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