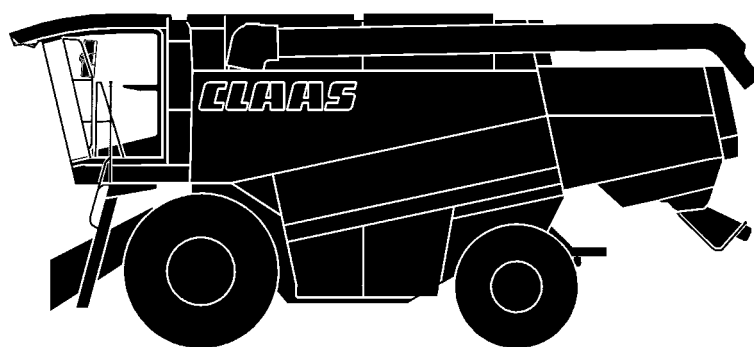


REPAIR MANUAL

CLAAS



LEXION 460 / 450 / 440

LEXION 430 / 420 / 415

LEXION 410 / 405

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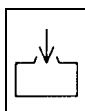
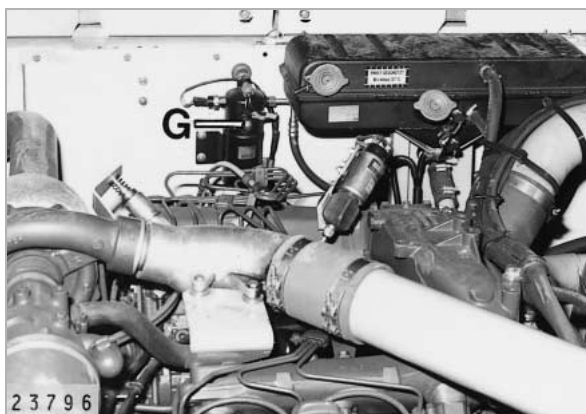
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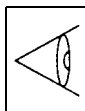
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Air conditioning system – Topping up refrigerant

(Air conditioner compressor Sanden Sd 7h 15)

1. Prior to evacuating, check if the filter receiver drier has to be replaced.



Checking the filter receiver drier:

In the control window (G), the ball will indicate the condition of the filter receiver drier.

Blue = OK

Pink = Requires replacement

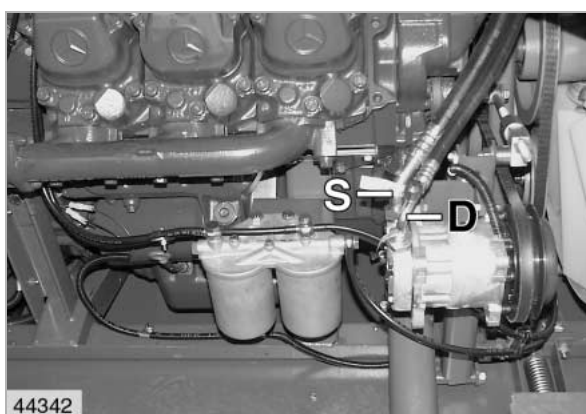
1

The filter receiver drier must also be replaced following a major leak, e.g. a broken line, in the refrigerant circuit.

2. Prior to filling, the air conditioner system must be evacuated and the tightness must be checked.

3. Topping up refrigerant:

Fill in refrigerant at connections (D, discharge side) and (S, suction side) of the air conditioning compressor.



2

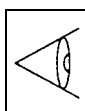


ATTENTION!

Never fill in liquid at connection (S)!



Use refrigerant **R134a** exclusively. The required filling quantity is **1800 g** of refrigerant. (Observe the instructions given by the unit manufacturer.)



4. Checking the refrigerant level at the control window (G) of the filter receiver drier using the white float:

If the float is at the bottom, the system requires refrigerant.

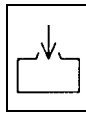
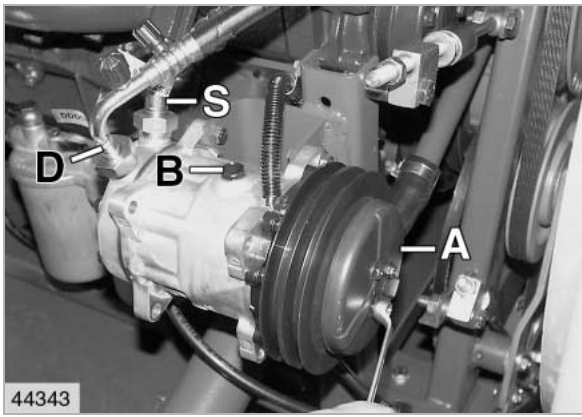
The white float is at the top = refrigerant quantity OK.



CAUTION!

The correct refrigerant level should be checked directly after the system function has been tested. Should the system have been left for a long time, then it may appear as if it requires refrigerant, but actually the level is correct.

(Fig. 1, 2)



Checking / topping up the refrigerant oil level at the air conditioner compressor

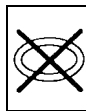
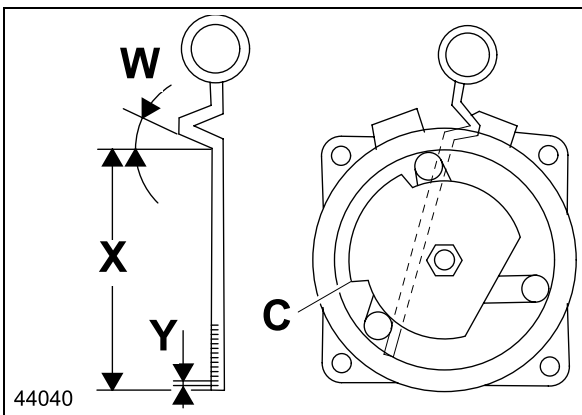
(Air conditioner compressor Sanden Sd 7h 15)

NOTE: The oil level at the compressor must be checked when a new air conditioner compressor or a newly sealed air conditioner compressor has been built in.

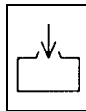
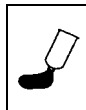


3

4



5



1. Start the diesel engine and leave running in slow idle speed.
2. Switch on air conditioner compressor and let it run for 10 minutes. Stop the diesel engine.
3. Extract refrigerant from connections (D, discharge side) and (S, suction side) of the air conditioning compressor. Proceed very slowly in order to prevent refrigerant oil from being extracted as well (Observe the instructions given by the unit manufacturer.)
4. Unscrew dust cap (A) and screw out oil filler plug (B).
5. Remove air conditioner compressor if required.
6. Turn air conditioner compressor to a horizontal position.
7. Rotate the counterweight (C) to the position shown and introduce the oil level dipstick, spare part no. 181 788.0 (or self-manufactured). Here the 30° inclination of the oil level dipstick must make contact with the compressor housing.

X = 105 mm
 W = 30°
 Y = 3 mm (clearance between notches)

8. The oil level must be shown up to notch 5 – 7 (from the bottom) on the oil level dipstick. Top up refrigerant oil (**SANDEN SP 20**) if necessary.
9. Screw in oil filler plug (B) with a new sealing ring and tighten with a tightening torque of **20 Nm**. Put dust cap (A) in place and screw in hex. bolts with liquid locking compound, e.g. DELO-ML 5349.

10. *Air conditioning system – Topping up refrigerant, see page 2.1.3.*

(Fig. 3, 4, 5)

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