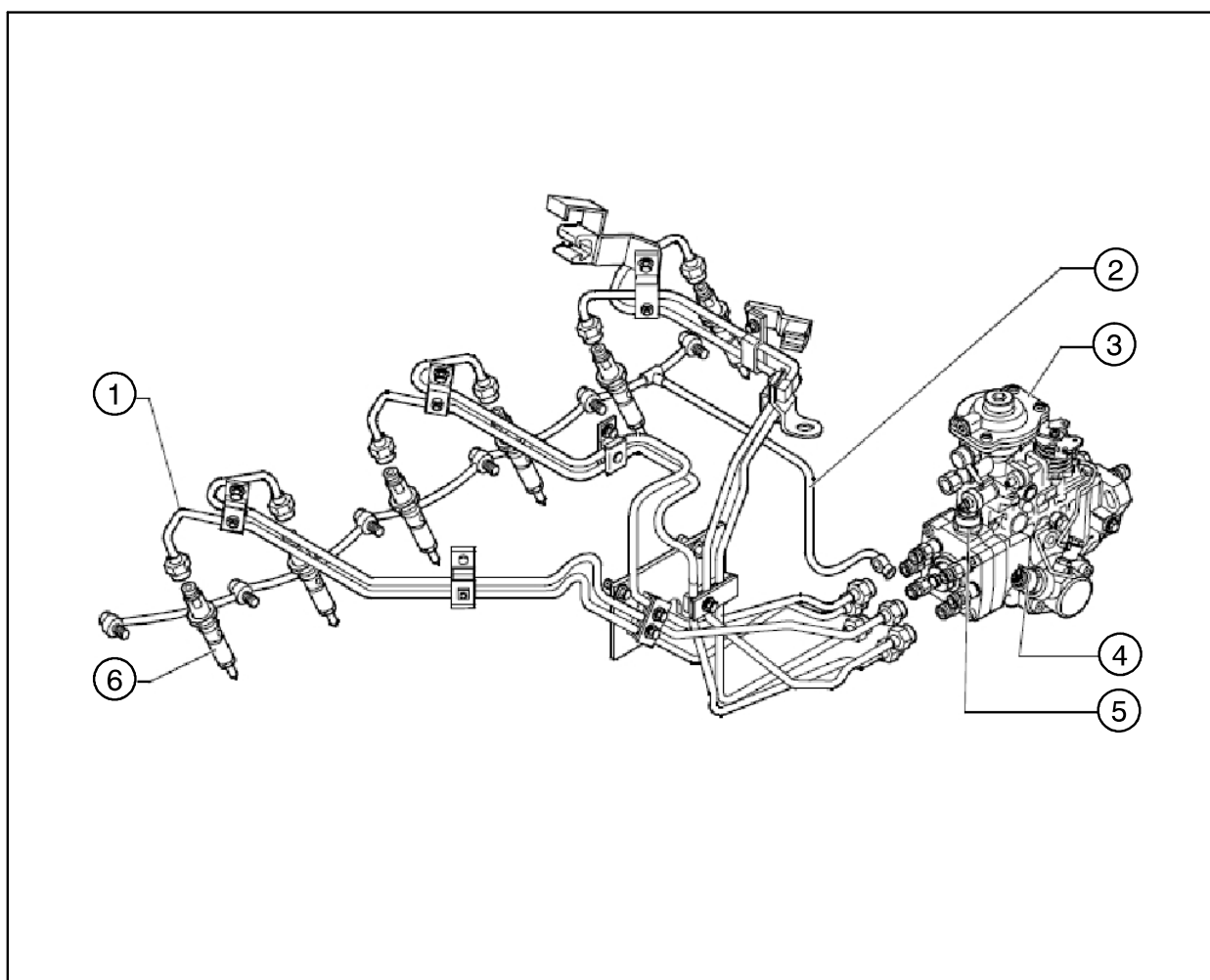


**INJECTION SUPPLY SYSTEM WITH ROTARY MECHANICAL PUMP****General features**

Fuel supply system is formed by:

- ☐ Fuel tank (on the machine)
- ☐ Fuel delivery and return lines to the tank
- ☐ Fuel prefilter (when installed, usually it is located next to the engine, on the machine frame)
- ☐ Priming pump, on the pump body
- ☐ Fuel filter (on the engine, with different position depending on the version and on the utilization)
- ☐ Fuel supply pump
- ☐ Supply line to the injectors (from fuel supply pump to injectors)
- ☐ Injectors



1. Injector supply lines
2. Fuel drain line from injectors
3. Fuel supply pump
4. Thermic tube for KSB
5. Electrovalve
6. Injector

## ENGINE OIL CHANGE and ENGINE OIL FILTER CHANGE



**WARNING:** due to safety reasons, never carry out these procedures when the oil is hot. In any case, protect the hands with rubber gloves.

**IMPORTANT:** the engine oil and filter have to be replaced after the first 50 hours (new combine) and after 450 hours.

If fuel with sulphur quantity over 0.5% is used, the oil and filter change interval must be halved (225 hours).

The oil must be replaced before the beginning of a new harvesting season. whenever oil is changed, change also the filter.

To carry out this operation (with warm oil), proceed as follows:

1. remove the plug (1) at the engine oil drain tube end; (this line is marked by a special decal);

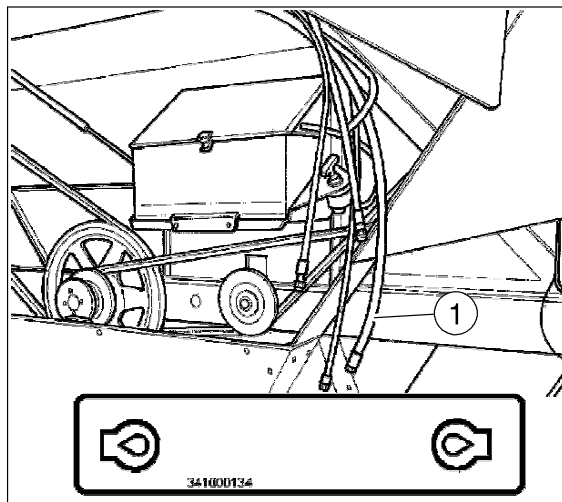


**WARNING:** do not dispose of oil in the environment, rather collect it in a suitable container.

2. to reach the filter area (2), lift the engine cover;
3. carefully clean the area next to the filter, loosen it and check that the whole seal is on the filter; possibly remove the seal traces still stuck on the filter;
4. oil the new filter seal and tighten it firmly by hands, without any tool;
5. refit the plug (1) at the engine oil drain tube end;
6. pour oil in the engine through the filler (3) and then check the level by the dipstick (4);
7. start the engine and check if there are oil leakages in the filters, then switch the engine off and top-up oil level, if necessary.

Use **BP TERRAC SUPER MOTOR 15 W-40**.

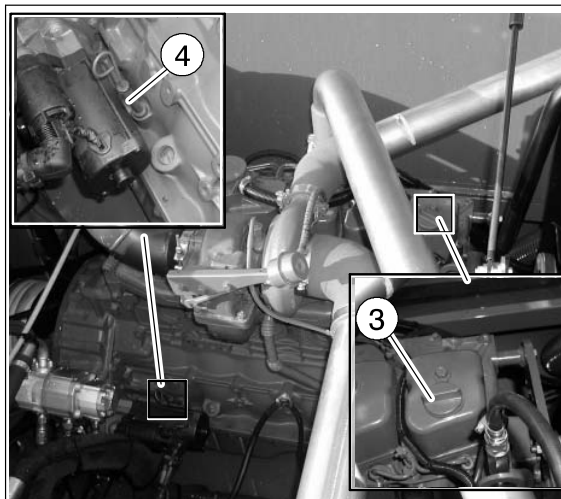
**IMPORTANT:** The procedures for the winter storage must be followed (Operator's Manual sec. 7). The oil must be replaced before every season, even if the engine work time doesn't reach the 450 hours.



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## ENGINE FUEL FILTER

The engine fuel filter have to be replaced:

- at the scheduled interval (450 hours);
- before beginning of a new harvesting season;
- in case of engine efficiency reduction.



**CAUTION:** if some diesel oil falls on a hot surface or an electrical circuit, a fire could be generated.

To prevent possible accidents, remove the starting key from the dashboard when the filter is to be changed.

**ATTENTION:** diesel oil quality and cleaning are extremely important for the engine operation and life. In case of use of low quality fuel (greater than 0.5% sulphur on diesel oil) the substitution periodicity of filter must be halved (225 hours).

Proceed as follows:

1. stop the engine;
2. block the engine supply circuit;
3. enter the crop tank by the ladder (1) and remove the lid (2) to reach the fuel filter (3) easily;
4. clean the filters (3) and surrounding area, remove and dispose of the used filter;
5. make sure the old seal has been completely removed from the filter support. Remove residues if any;
6. lubricate the new filter seal with clean diesel oil;

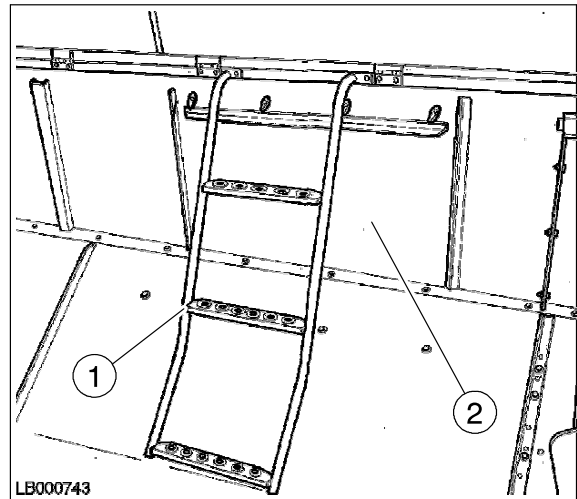
**ATTENTION:** do not fill the new filters with diesel oil before fitting it. This fuel could be unfiltered and contain pollutants. Contaminated fuel increases the engine component wear.

7. tighten the new filter until the seal lays on the filter support, then make the filter rotate by one further turn (this operation is made easier by some marks on the filter);

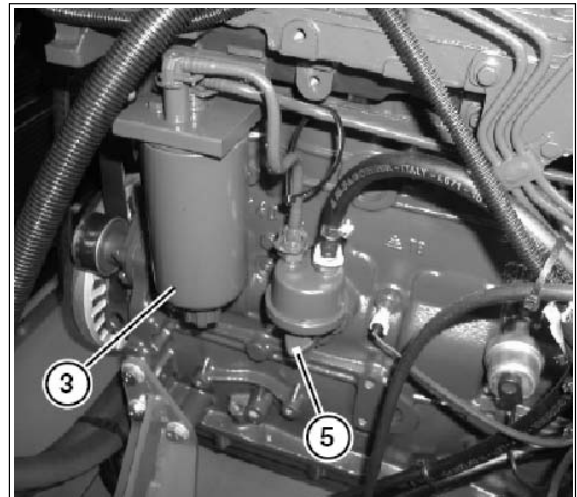
**ATTENTION:** due the special requirements of the injectors used on this type of engine, a high capacity separator fuel filter with high and proved efficiency must be used. **Use only genuine filters.**

8. open the engine supply circuit;
9. Fill the filter (3) operating the manual pump (4) at least 40–50 times;
10. if necessary, complete the operation using the pump (5);
11. start the engine and check that the filters are properly tightened, after a few minutes, stop the engine and check for diesel oil leaks.

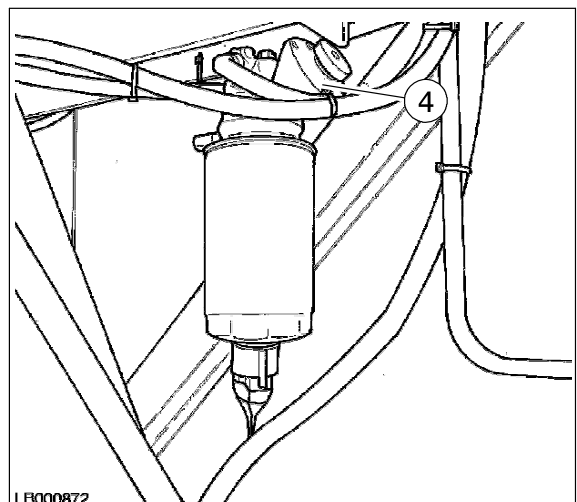
**IMPORTANT:** The filters must be replaced every year, even if the machine has not reached 450 hours in operation.



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