

GB UNIPOWER® SRC 46

SYSTEM MAINTENANCE INFORMATION

FLUSHING PROCEDURE

The following procedure is recommended in making the change-over from a petroleum hydraulic oil to GB UNIPOWER® SRC 46:

1. Drain oil from system completely. Particular attention should be paid to the reservoir, fluid lines, cylinders, accumulators, filters and other equipment where residual oil may be trapped.
2. Clean the system of residual sludge and deposits. Remove the paints from the inside of the reservoir unless it has been tested and found to be resistant to the softening and lifting action of GB UNIPOWER® SRC 46. Steam cleaning has been very effective in many instances. The use of carbon tetrachloride or other chlorinated metal cleaners should be avoided.
3. Remove or disconnect the filter.
4. Flush the system with a minimum quantity of GB UNIPOWER® SRC 46. Flush initially by operating at no load or at minimum pressure, then bring the fluid up to normal temperature and operate all parts. Many users follow the practice of operating on the flush fill for several hours in order to ensure complete circulation. Systems previously filled with phosphate ester fluids should be flushed with mineral oil before proceeding as above.
5. Drain the flushing charge as completely as possible while it is still warm and without allowing it to settle. This fluid can be retained for further use after suspended solids have settled and residual petroleum oil has separated. With proper attention to removal of suspended contaminants, the flushing fluid can be used in preparing other machines for service.
6. If a filter is used, install a clean filter cartridge. Replace filter elements having zinc or cadmium plated parts with appropriate substitutes. Do not use a highly absorptive filter medium such as activated clay or Fuller's Earth, since these filters may alter fluid composition by removing essential additives.
7. Examine pump parts, O-rings and auxiliary equipment. Worn pump parts should be replaced. Leaking pipe joints should be repaired and deteriorated gaskets, seals and packings should be replaced in order to minimise mechanical fluid losses. Cork shaft seals should be replaced if they are present in the system.

Cont'd .../...

8. Reconnect the system and tighten all joints and connections.
9. Fill system with GB UNIPOWER[®] SRC 46.
10. Operate at reduced pressure to ensure proper lubrication of the hydraulic pump, then bring up to standard operating conditions.

During the first few weeks of operation, particular attention should be paid to the filters and inlet screens. They may become clogged by sludge and deposits that have been loosened by the solvent action of the GB UNIPOWER[®] SRC 46. Such blockages may cause pump starvation, noisy operation and high pump wear. Therefore, filter cartridges should be replaced and inlet screens cleaned as often as needed.

CONTROL OF GB UNIPOWER[®] SRC 46

GB UNIPOWER[®] SRC 46 can, in some instances, slowly lose water in service by evaporation. The water content can be monitored by the viscosity of the fluid.

30 to 50 cSt	no action required
>50 and <75 cSt	add deionised water to adjust back to 42 cSt. Use 1.5 parts water to 100 parts product to drop viscosity by 1 cSt.
>75 cSt	discard and refill
<20 cSt	discard and refill
20 to 30 cSt	drain half system volume and top up with new fluid

Use only deionised water.

If you have any queries, please do not hesitate to contact either your local Technical Sales Representative or our Technical Department.

The Company policy is to ensure that a range of products is supplied which complies with the latest specifications and codes within the relevant industry. As part of this development process, we therefore reserve the right to amend formulations and specifications, without prior notice.

TDS105.1108.06