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Carrying Out an Oil Change

Contaminant in hydraulic systems is recognized as the most frequent cause of malfunction or failure of hydraulic equipment. Dependent on the nature, size and/or amount of contaminant, it can cause:

- Reduced component service life.
- Machine malfunction, particularly when operating near maximum capacity.
- Risk of frequent breakdowns under the same conditions.

Good maintenance procedures make it mandatory to keep the hydraulic fluid clean. A daily, weekly or monthly log should be kept on the hydraulic fluid condition.

No hard and fast rules can be established for changing the fluid because of the great variety of operating conditions. However, we do know that when filter elements are replaced frequently, service life of a system increases. Periodic testing of the fluid by the Systems Services is recommended to confirm suitability for continued use and to establish the correct fluid and filter element replacement interval.

Some of the considerations affecting hydraulic fluid are: operating temperature, type of service, contamination levels, filtration, and the chemical composition of the fluid.

Procedure

- 1. Ensure all test specimens are removed from the test equipment
- 2. Isolate the electricity to the control cabinet
- 3. Empty the oil from the reservoir
- 4. Drain all the oil from the hydraulic ring main and hoses (if applicable)
- 5. Disconnect all the test systems from the ring main and loop the hoses together
- 6. Remove the reservoir panels and inspect the interior
- 7. Clean the reservoir interior and replace suction filters
- 8. Seal and refit the inspection panels
- 9. If possible pump clean oil into the ring main (if applicable)
- 10. Link out oil level and pressure switches on the pump unit
- 11. Fill the tank with sufficient oil to cover the suction lines
- 12. Flush the system for a minimum of 4 hours
- 13. Empty the oil from the main reservoir
- 14. Drain the oil from the ring main
- 15. Fill the system with clean oil
- 16. Reinstate the oil level switch
- 17. Flush the system for a further 4 hours see Systems Services Technical Bulletin "Flushing Guidelines"

DIAPHRAGM ACCUMULATORS

Systems Services The Coach House, 303 Willington Road, Kirton End, Boston, Lincolnshire, PE20 INR www.systems-services.com +44 (0) 1205 724242, Fax +44 (0) 1205 724247 support@systems-services.com

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