



## SYSTEM CLEAN OUT INSTRUCTIONS

Seven simple steps to clean most machines:

- 1) Pre-cleaning cycle: add 1 – 3% cleaner to system 4 – 24 hours prior to dumping.
- 2) Dump old fluid from your system and add enough fresh water for thorough circulation.
- 3) Add 1 – 10% of Houghton metal cleaner per gallon of water in sump. The quantity required depends up on the condition of the equipment and the cleaner being used. Heavier deposits will require higher concentrations. Make sure that enough fluid is in the system to ensure that good circulation can be attained.
- 4) Circulate solution for one to two hours, or until all deposits are loosened. Make sure that all surfaces to be cleaned are reached by the solution. For caked deposits, use high pressure flow to loosen. Residual deposits may trap live bacteria that will reinfect the system, so clean thoroughly. Larger and/or dirtier coolant systems should be circulated for several more hours.
- 5) Spray cleaning solution on machine tools, ways, troughs and other areas which are splashed with coolant during operations. Loosen hardened deposits.
- 6) Drain. Flush with fresh water.
- 7) The system is now ready for your new cleaner charge.

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