

## NSF H2 to NSF H1 HYDRAULIC CHANGE OVER

### PROCEDURES

- First, and foremost, fix your leaks. Check the oil inlet seals, o-rings, gasket, and the lines for leaking area.
- Drain main hydraulic reservoirs.
- If possible, change the oil when it is warm so the contaminants will not have time to settle.
- Drain all main lines (blow air through lines back to main reservoir).
- Check your seals for compatibility, the recommended material would be Viton or other oil compatible seal materials.
- Clean hydraulic reservoir as thoroughly as possible.
- Change or clean all screens.
- Check and change all filters and breathers.
- Check and clean the magnetic stick.
- Fill all hydraulic reservoirs with USDA H1 hydraulic oil.
- Make sure all oil fill covers are properly in place.
- Charge all lines to circulate oil through system.
- Take oil samples, oil analysis is excellent for trouble shooting and preventative/predictive maintenance.
- Continue oil sampling every two weeks until further notice.
- Continue to monitor filters and screens after two weeks of running USDA H1 hydraulic oil for contaminants.

- Since viscosity varies with temperature, it is necessary to know and control the actual operating temperatures.
- Clarion FG A/W 32 operating temperature range is 120<sup>o</sup>- 130<sup>o</sup>F
- For every 10<sup>o</sup>degree over 150<sup>o</sup>F the life of the oil is cut in half.
- Working pressure should be less than 2000 P.S.I.
- Remember, oil is not drawn into a pump, it is pushed in by atmospheric or boost pressure. Check your pump manufacturer recommended start up operating procedures to avoid cavitations in pumps or motors.
- Make sure that nothing is sitting on top of the power pack units because it will contain heat.
- Keep the oil clean, cool, and dry to assure long life hydraulic system performance.
- Remember price and cost are totally different criteria's. Price is what you pay for a product. Cost is the value you get from the product. Other Food grade Hydraulic products may be cheaper but may add to cost by contributing to short pump life, reduced oil life, sticking valves and leaks. Pick a proven oil supplier like Clarion FG A/W 32 that stands behind their product. Clarion FG A/W 32 has been working with Food Grade Hydraulics since 1982.