

DBS Lubrication & Maintenance Schedule

For SE-X and SF-X Drives

A DBS drive unit is made up of several speed reducers coupled together. Every speed reducer is totally enclosed and lubricated. The recommended lubricants and oil change intervals are listed in this section. Some gearboxes are sealed and permanently lubricated, and require no further service. Proper care of your drive unit will ensure long machine life. Always maintain proper oil levels and follow the recommendations below.

BASIC LUBRICATION AND MAINTENANCE SCHEDULE

| | All Drives | F Type Drive | E-Type Drive |
|-----------------------|---|-----------------|---|
| First 10 Days | | Replace filter. | |
| Every Week | Inspect oil level in the variable speed reducer or fluid drive as applicable. | | |
| Every 3 Months | | Replace filter. | Grease worm box top bearing. |
| Every 6 Months | | | If present, change oil in the variable speed reducer. |
| Every 10 Years | Inspect all reducers, overhaul as required. | | |

SEVERE ENVIRONMENT LUBRICATION AND MAINTENANCE SCHEDULE

The time interval specified in the basic lubrication and maintenance schedule should be reduced if the following conditions exist:

1. High humidity, dust or dirt, and/or corrosive chemical atmosphere.

PROCEDURES TO REPLACE HYDRAULIC FILTER--F-TYPE.

1. Turn the machine off and wait 2 minutes for the oil in the filter to drain.
2. Unscrew the filter counterclockwise slowly until the seal is broken. Allow one additional minute to drain the filter; then remove the old filter. Wipe off the surface where the filter contacts the lid.
3. Put a layer of oil on the new filter gasket surface. Tighten new filter 3/4 of a turn after seal contacts base.

Recommended Lubricants And Volume

| Drive Model | F-Primary Reducer | | E-Primary Reducer Worm / Worm / Worm / Helical (Permanently Lubricated) | | | | Planetary Gearbox (Permanently Lubricated) | |
|---------------|--------------------|-------|---|--------------------------------------|------------------|------------------|---|-------|
| | Capacity (Gallons) | Level | HC 382 Full (oz) | HC 322 Full (oz) HC 325 Full (oz) | HC 211 Full (oz) | HC 254 Full (oz) | Capacity (oz) | Level |
| S_-3X | 6 or 10 | Full | 70 oz | 48 oz | 20 oz | 14 oz | 88 oz | Full |
| S_-7X | 6 or 10 | Full | 70 oz | 48 oz | 20 oz | 14 oz | 192 oz | Full |
| S_-10X | 6 or 10 | Full | 70 oz | 48 oz | 20 oz | 14 oz | 300 oz | Full |

Recommended Lubricants

| Component | | Recommended Lubricant | |
|--|------------------------|---|--|
| Description | Manufacturer | Brand | Product |
| Type F Speed Reducer Hydraulic Power Unit | DBS Parker Hannifin | Mobil | DTE 24 (30° to 100° F) ¹ DTE 13M (-40° to 40° F) |
| Planetary Gearbox | Fairfield Eskridge | Lubriplate Mobilith Chevron Texaco | MAG-00 ² SHC-007 DURALITH 00 STARFAK 00 |
| Worm Gearbox | Hub City | Lubriplate Mobilith Chevron Texaco | MAG-00 SHC-007 DURALITH 00 STARFAK 00 |
| Helical Gearbox | Hub City | Lubriplate Mobilith Chevron Texaco | MAG-00 SHC-007 DURALITH 00 STARFAK 00 |
| Helical Gearbox | Nord | See instructions in Nord Section | |
| Variable Speed Reducer | Lenze | See instructions in Section II containing variable speed reducer information. | |

¹ The recommended hydraulic fluid should be a premium grade all-weather anti-wear rust and oxidation inhibited mineral base hydraulic oil. For continuous operation in excess of 140°F oil temperature, ISO viscosity grade 46 is recommended.

² Lubriplate MAG-00 is made by Fiske Brothers Refining Company at 129 Lockwood Street, Newark, New Jersey 07105.

³ For temperature extremes beyond those listed, synthetic lubricants are recommended.