

## BASIC MAINTENANCE SCHEDULE FOR ICE MAKERS

Regular maintenance of North Star ice makers will ensure years of trouble free service. North Star has developed a recommended schedule for maintaining our ice makers, which is outlined below, and includes a list of recommended lubricants.

### DAILY

1. Inspect the water circulation system, clean the water rings and check for plugged nozzles, drain the water makeup tank and refill with fresh water.
2. Check sight glass on top center gearbox for proper oil level.
3. Check sight glass on the oil return line to ensure strainer is not obstructed on halocarbon systems.

### MONTHLY

1. Check for oil accumulation in evaporator on ammonia systems. De-oil if required.
2. Check for scale or rust on evaporator freezing surface.
3. Check for oil leaks on speed reducer.

### EVERY SIX (6) MONTHS

1. Check oil level in speed reducer. Add oil if necessary, see list for recommendations.
2. Check top bearing play and gear backlash.
3. Check freezing surface for drum grooves.

### ANNUALLY (EVERY 12 MONTHS, IN ADDITION TO ALL OF THE ABOVE)

1. Change oil in speed reducer and top center gear housing.
2. Check ice removal tools for wear and proper clearance.
3. Check refrigeration control valve for proper operation.
4. Check motor drive belt for tension and wear.

### FIVE YEARS

1. Replace rotor bearings and pinion gear bearings.
2. Check ring and pinion gear for wear and backlash.

### LUBRICATION LIST

| PART                    | LUBRICANT TYPE        | MANUFACTURER AND PRODUCT                           |   |
|-------------------------|-----------------------|--|---|
| Top Center Gear Housing | GEAR OIL              | <b>MOBIL MOBILUBE HD 80W-90</b>                    |   |
| Speed Reducer           | WORM GEAR REDUCER OIL | (Mineral Oil) <b>MOBIL SUPER CYLINDER OIL 600W</b> | (Synthetic Oil) <b>LUBRIPLATE PGO-460 Oil</b> |

*Equivalent lubricants are available from other manufacturers*

For more information, please see the Installation & Operations Manual provided with each ice maker.