



TILT MIXER Maintenance and Lubrication Schedule

*****NEVER OPERATE A CONCRETE MIXER WITHOUT ALL GUARDS IN PLACE!!!- Utilize an infrared (laser) temperature gun to obtain operating temperatures from a safe distance. Stop and lock-out / tag-out the drum power before performing any equipment inspections or adjustments. ** ALWAYS USE LOCKOUT-TAGOUT PROCEDURES *****

CONTINUOUS--DURING OPERATION

1. The pinion gears, ring gear, support roller track and support rollers must not be allowed to run dry and require frequent attention. Adjust the timer on the automatic oiler as required to maintain "wet" appearance at all times.
2. Monitor for unusual or irregular sounds and vibrations while mixer is in operation

DAILY ROUTINE

1. Check oil distribution on ring gear, pinion gear support roller track and support rollers.
2. Check oil level in Auto Oiler and fill as necessary.
3. Check hydraulic fluid level in sight glass of reservoir.
4. Inspect mixer barrel for build up and remove as necessary.

WEEKLY ROUTINE--No More than 2000 yards

1. Grease support roller bearings.
2. Grease tilt cylinder pins.
3. Grease mixer pivot pins.

MONTHLY ROUTINE--No more than 8000 yards

1. Perform and file the "MONTHLY INSPECTION".
2. Check oil level in the gear reducer.

QUARTERLY--No more than 12,000 yards

1. Replace hydraulic unit filters.

ANNUAL ROUTINE--No more than 100,000 yards, or at end of season

1. Drain and replace gear reducer oil.
2. Drain and replace hydraulic fluid. Replacing the hydraulic fluid filters, tank strainer and clean inside of tank.

REQUIRED LUBRICANTS AND FLUIDS

- Ring gear oil - 80w90 or 85w140 Gear Lube, or equivalent (Petroleum or Synthetic Based)
- Bearings and pins - high quality extreme pressure bearing grease
- Gear reducer oil - API-GL-5, No. 80 or 90 - capacity approx. 70 oz. (See page--Gear Reducer Lube Points)
- Hydraulic fluid - Premium Grade, viscosity index of 90 or higher, Phillips 53130 HG Fluid or equivalent (Capacity 120-140 gallons)

TILT MIXER MONTHLY INSPECTION

**** ALWAYS USE LOCKOUT-TAGOUT PROCEDURES ****

Pinion Gears, Ring Gear, Support Roller Track and Support Rollers

- Check for complete distribution of oil of ring gear teeth, pinion gears, support roller track, thrust roller track and support rollers.
- Inspect all rollers, roller tracks, pinion gears and ring gears for wear and/or damage

Thrust Rollers

- Check condition of face of roller.
- Check for evidence of grease seal leakage.
- Check mounting bolts.

Drive Assemblies

- Check the mounting bolts for tightness.
- Inspect for wiring damage, soundness of connection and loose electrical fitting for the electric drive motors.
- Inspect Para-Flex coupling element for wear and/or damage. Inspect bushing connections to the shaft and check bolt tightness on flanges.

Mixer Barrel

- Check paddles and mounting hardware for loose or missing hardware
- Check urethane paddle and drum liners for loose attachments, excessive wear and separating seams.
- Inspect mixer barrel for structural cracks or damage.
- Inspect mixer nose cone mounting bolts.

Hydraulic System

- Check the entire hydraulic system for evidence of leaks while the power unit is not running.
- Listen to hydraulic power unit for unusual sounds-pump cavitation in particular.
- Clean hydraulic unit heat exchanger.
- Check operation of control valves manual overrides.
- Check operation of emergency tilt system.
- Check operation of tank heater.
- Inspect hydraulic cylinders for leaks, wear and damage.

Electrical System

- Check tightness of all electrical connections.
- Inspect electrical conduit and wiring for damage and/or wear.

Safety Decals

- Use the Mixer Decal location in owners manual and check to make each decal is in place and readable.

Remarks/Comments: _____
