

DESCRIPTION:	Intermediate Lubrication and Service	FREQUENCY:	6 Months
LOCATION:	Forest Hill Sewerage Treatment Plant	STANDARD JOB No.:	LTS508

Tools & Equipment
Spare Parts/Materials List
Schaeffer's #221 Moly Ultra EP grease or equivalent
Schaeffer's 209A ISO 220 oil or equivalent
Lubrimatic/Witco Corporation N11402 marine corrosion control grease or equivalent
Reference
Follow correct shut down procedures before working on any equipment.
O & M Manual Submittal Package 5HP Floating Brush Aerator – Forest Hill STP Aerator
O & M Manual Class I Tornado Aspirating Aerator
Maintenance Group
Lagoon Aerator
Procedural Steps
Before isolating any equipment, where possible observe in running condition. Check for correct operation.
2 different types of aerators are utilised on site. Only 1 type may be operational at any given time.
5HP Floating Brush Aerator
Fafnir Stainless Steel, Enclosed Tail-Bearing
Apply 8 to 9 shots of Schaeffer's #221 Moly Ultra EP grease into the grease nipple located on the outside cover of the enclosed Tail- Bearing. Visually inspect the bearing to insure the shaft is aligned in the centre of the bearing.
Visually check for any debris around the seal, clear any debris. If auto lube fitted, refill.
Dodge Gear Reducer
Carry out oil change with Schaeffer's 209A ISO 220. You should put 5 pints of oil in the TA2 gear reducer model used on the 5hp aerators.

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Drive End Bearing
Apply grease to the Dodge Piloted Flange Bearing. <i>Slowly</i> pump grease until it starts coming out of the bearing.
Visually inspect the bearing to insure the shaft is aligned in the centre of the bearing.
Drive Shaft Grease Seal Plates
Slowly pump 2 to 3 shots of grease into the seal cavity. Visually check for any debris around the seals. Any buildup of solids around the seal, clear any debris.
Paraflex Coupler
Visually inspects for any element misalignment or wear of the paraflex coupling element.
Visually inspect floats, mooring arms, and remove any debris that may be wrapped around the drive and tail shaft.
Class I Tornado Aspirating Aerator
Lubricate Aerator
Lubricate aerator grease fittings with two shots of Lubrimatic/Witco Corporation N11402 marine corrosion control grease
Inspect Coupling
Check for wear or presence of rubber dust at the coupling area
Inspect Propeller
Check for nicks or pits on the propeller. With the propeller firmly in hand, check for both end play and side play.
Inspect Seals
Rotate propeller by hand. Propeller should rotate freely. Remove the propeller and cone, then visually inspect the outer seal. There should not be a gap between the seal and shaft. Pull on shaft to check for end play.
There should not be noticeable end play. An aerator with end play, a gap between the seals and shaft or shaft rotation that is loose and grinding.