



Instructions Preventive Maintenance Check Sheet Instructions for Fertilizer

S. #	Equipment	Maintenance Location	Check Box	Remarks
1	Receiving Drag Conveyor	Head Shaft Bearing	<input type="checkbox"/>	See Table 1 on Page 2
		Tail Shaft Bearing	<input type="checkbox"/>	See Table 2 on Page 2
		Motor	<input type="checkbox"/>	
		Drive	<input type="checkbox"/>	See Table 3 on Page 2
2	Receiving Elevator	Boot Section Bearing	<input type="checkbox"/>	See Table 2 on Page 2
		Head Section Bearing	<input type="checkbox"/>	See Table 1 on Page 2
		Motor	<input type="checkbox"/>	
		Drive	<input type="checkbox"/>	See Table 4 on Page 2
3	Receiving Open Belt Conveyor	Head Shaft Bearing	<input type="checkbox"/>	See Table 1 on Page 2
		Tail Shaft Bearing	<input type="checkbox"/>	See Table 1 on Page 2
		Take Up Bearing	<input type="checkbox"/>	See Table 1 on Page 2
		Cart Bearing	<input type="checkbox"/>	See Table 2 on Page 2
		Winch Bearing	<input type="checkbox"/>	See Table 2 on Page 2
		Motor	<input type="checkbox"/>	
4	Load Out Conditioner	Drive	<input type="checkbox"/>	See Table 4 on Page 2
		Motor	<input type="checkbox"/>	
		Bearing	<input type="checkbox"/>	See Table 2 on Page 2
5	Reclaim Drag Conveyor	Head Shaft Bearing	<input type="checkbox"/>	See Table 1 on Page 2
		Tail Shaft Bearing	<input type="checkbox"/>	See Table 2 on Page 2
		Motor	<input type="checkbox"/>	
		Drive	<input type="checkbox"/>	See Table 4 on Page 2
6	Load Out Elevator	Boot Section Bearing	<input type="checkbox"/>	See Table 2 on Page 2
		Head Section Bearing	<input type="checkbox"/>	See Table 1 on Page 2
		Motor	<input type="checkbox"/>	
		Drive	<input type="checkbox"/>	See Table 4 on Page 2
7	K-Valve (Below Elevator)	Bearing	<input type="checkbox"/>	See Table 2 on Page 2
		Motor	<input type="checkbox"/>	
8	Distributor	Bearing	<input type="checkbox"/>	See Table 2 on Page 2
		Motor	<input type="checkbox"/>	
		Reducer	<input type="checkbox"/>	See Table 5 on Page 2
9	Salem Valve 10 Sq.	Bearing	<input type="checkbox"/>	See Table 2 on Page 2
10	Salem Valve 14 Sq.	Bearing	<input type="checkbox"/>	See Table 2 on Page 2
11	Salem Valve 20 Sq.	Bearing	<input type="checkbox"/>	See Table 2 on Page 2
12	Salem Valve 24 Sq.	Bearing	<input type="checkbox"/>	See Table 2 on Page 2
13	3-Way Valve	Bearing	<input type="checkbox"/>	See Table 2 on Page 2
14	Blender 1 and 2	Bearing	<input type="checkbox"/>	See Table 2 on Page 2
		Drive	<input type="checkbox"/>	See Table 6 on Page 2
		Motor	<input type="checkbox"/>	
15	K-Valve (Below Blender)	Bearing	<input type="checkbox"/>	See Table 2 on Page 2
		Motor	<input type="checkbox"/>	
16	Micro Conveyor	Head Shaft Bearing	<input type="checkbox"/>	See Table 2 on Page 2
		Tail Shaft Bearing	<input type="checkbox"/>	See Table 2 on Page 2
		Motor	<input type="checkbox"/>	
		Drive	<input type="checkbox"/>	See Table 4 on Page 2

NOTE: 1. Inspect pre-season, lubricate all needed parts end of season.
2. Drive needs oil change minimum once a year.



Preventive Maintenance Check Sheet Instructions for Fertilizer

Table 1: Re-lubrication intervals (months) based on 12 hours per day, 150° F M

Shaft Size	250 RPM
1-1/8" to 2"	4
2-3/16" to 2-1/4"	3.5
2-3/8" to 3"	3
3-3/16" to 3-1/2"	2.5
3-11/16" to 4-1/2"	2
4-15/16" to 5-1/2"	1.5
5-15/16" to 6"	1
6-7/16" to 7"	1

Table 2: Use a No. 2 Lithium complex base grease or equivalent *

Hours Run per Day	Suggested Lubrication Period in Weeks
	1 to 250 RPM
8	12
16	12
24	10

* For EZ-Kleen series bearings, use a polyurea base grease.

Table 3: Approximate Oil Volumes

Case Size	Oil Volume in Quarts
	Horizontal
MTA2115H	3-5/8
MTA3203H	4-3/8
MTA4207H	6-3/4
MTA5215H	10-1/8
MTA6307H	15-3/8
MTA7315H	19-5/8
MTA8407H	22-5/8

Table 4: Oil Volumes

Case Size	Ratios	Oil Volume in Quarts
		Horizontal
TA0107L	Doubles	0.5
TA1107H	Doubles	0.7
TA2115H	Doubles	1.1
TA3203H	Doubles	1.5
TA4207H	Doubles	2.5
TA5215H	Doubles	4.7
TA6307H	Doubles	5.5
TA7315H	Doubles	10.8
TA8407H	Doubles	11.7
TA9415H	Doubles	16.8
TA10507H	Doubles	27.6
TA12608H	Doubles	41.5

Table 5: Approximate Lubricant Amount

Type	Red. Stage	Mounting Position	
		Pints	Liters
B_38	3	2.1	1.0
B_48	3	3.3	1.6
B_68	3	5.9	2.8
B_88	3	10.7	5.1
B_108	3	19.7	9.3
B_128	3	36.9	17.6
B_148	3	54.9	26.0
B_168	3	86.9	41.1

Table 6: Gear Oil Information for Both NORD Drives

Drive Size	Type of Oil	Recommended Brand	Approximate Fill Volume	Service Interval
100 HP	ISO VG 220	Mobil SHC 630	31 Liters (8.2 Gallons)	The lesser of 20,000 hrs. or 4 months of operation
125 HP	ISO VG 220	Mobil SHC 630	46 Liters (12.2 Gallons)	The lesser of 20,000 hrs. or 4 months of operation

The fill volume is approximate, depending on the actual gear ratio. Essentially, the operator should fill the drive until the oil is level with the fill plug location.