

UNIPAVE SENSOR PAVER ESP-05

LUBRICATION CHART

ESP-05

Machine Serial No. : _____

Engine Serial No. : _____

Manufacturing Year : _____

Manufactured By:

UNIPAVE ENGINEERING PRODUCTS

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LUBRICATION OF PARTS

Below mentioned assemblies/parts must be lubricated using grease gun provided in Tool Box to avoid wearing of parts. Grease nipples are provided for lubricating these assemblies. Refer the lubrication chart for type of lubricant to be used. The Lubrication ports are numbered in the Fig 1 & Fig 2 in below mentioned order.

1. Push Rollers: 4 points
2. Front Wheel Bogie: 2 points
3. Front Wheels: 4 points
4. Rear Wheels: 4 points
5. Chain Tightening Bracket Chain Wheels: 4 points
6. Traction Drive Chain Wheel Pedestal Bearings: 2 points
7. Intermediate Shaft Pedestal Bearings: 4 points
8. Idler Chain Wheel Bearings: 4 points
9. Upper Housing Bearings: 2 points
10. Square Housing Bearings: 2 points
11. Auger Main Shaft Support Round Housing Bearings: 2+2(Extension Vertical Supports)
12. Steering Tie Rod Ends: 8 points
13. Brake Pedal Hinge Pins: 4 points
14. Vibrating Shaft Pedestal Bearings: 8 points
15. Tamping Shaft Pedestals Bearings: 8 points
16. Tamping Shaft Hanger Pedestal Bearings: 8 points

1. LUBRICATION PORTS

UNIPAVE[®] ESP-05

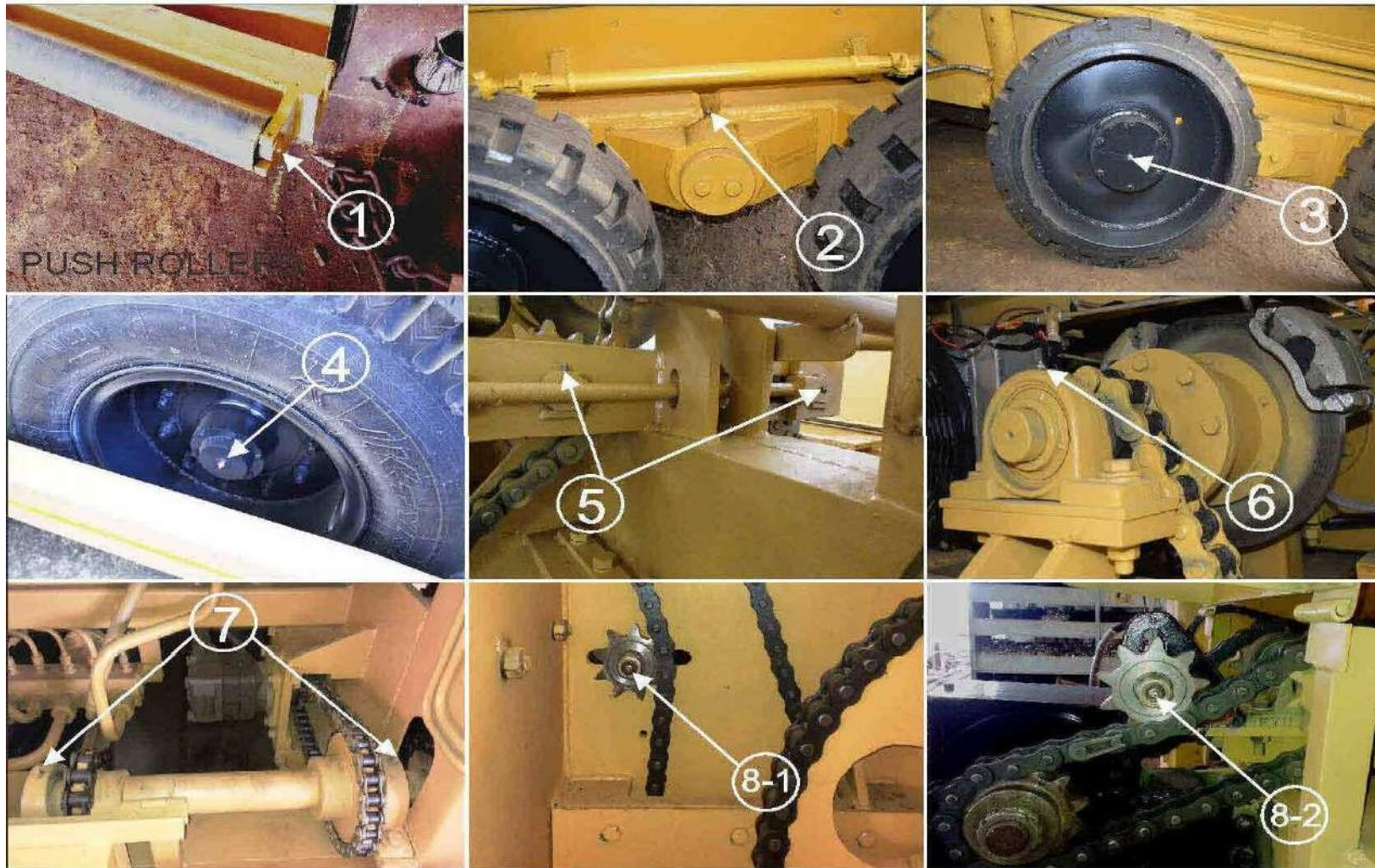


Fig 1

1. LUBRICATION PORTS

UNIPAVE[®] ESP-05

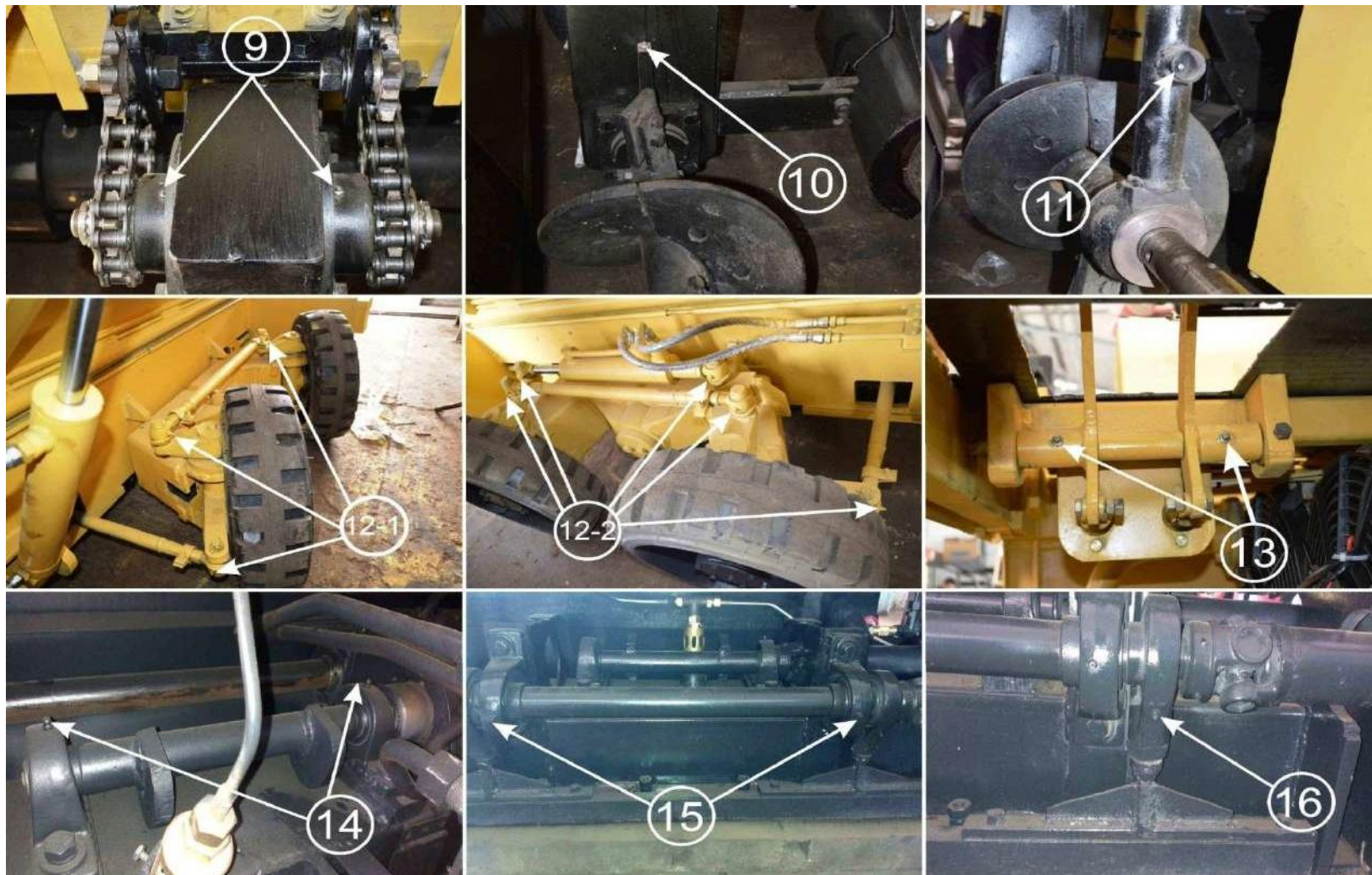


Fig 2

1. LUBRICATION PORTS

DRIVE ROLLERS AND IDLER ROLLERS.

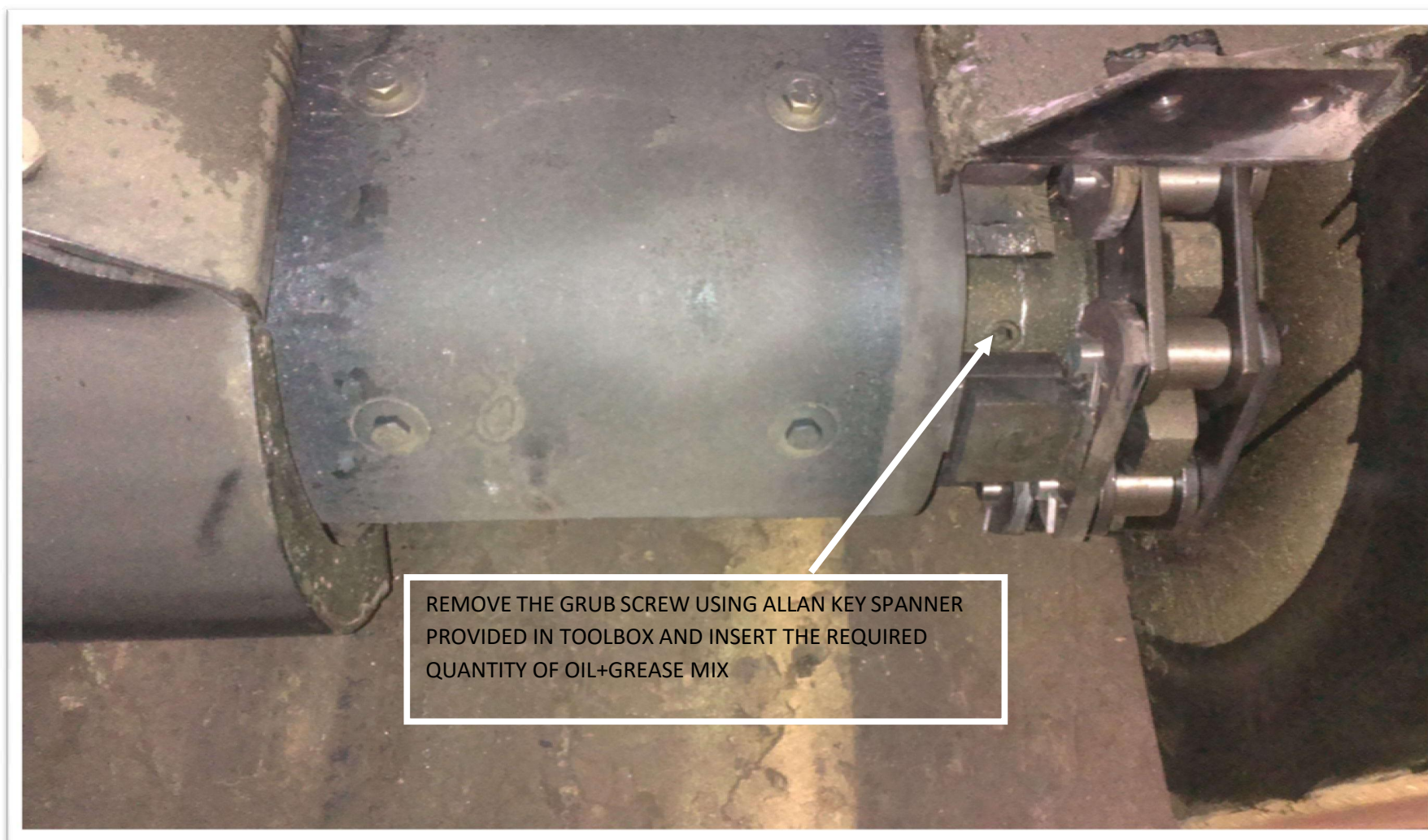
The roller bearing may wear out in case of improper lubrication. To lubricate the bearings mixture of Oil+ Grease in ration of Oil:Grease = 2Lts:1kg is used. This mixture is poured into the rollers through the Inlet port provided on the rollers.To change or top up the mixture follow below mentioned steps.

For Drive Rollers.(Refer Fig 3)

Remove the Rear Chain Cover and rotate the Roller until the Inlet Port is easy to access. Remove the Grub Screw and fill the roller completely with mixture.

For Idler Rollers.(Refer Fig 4)

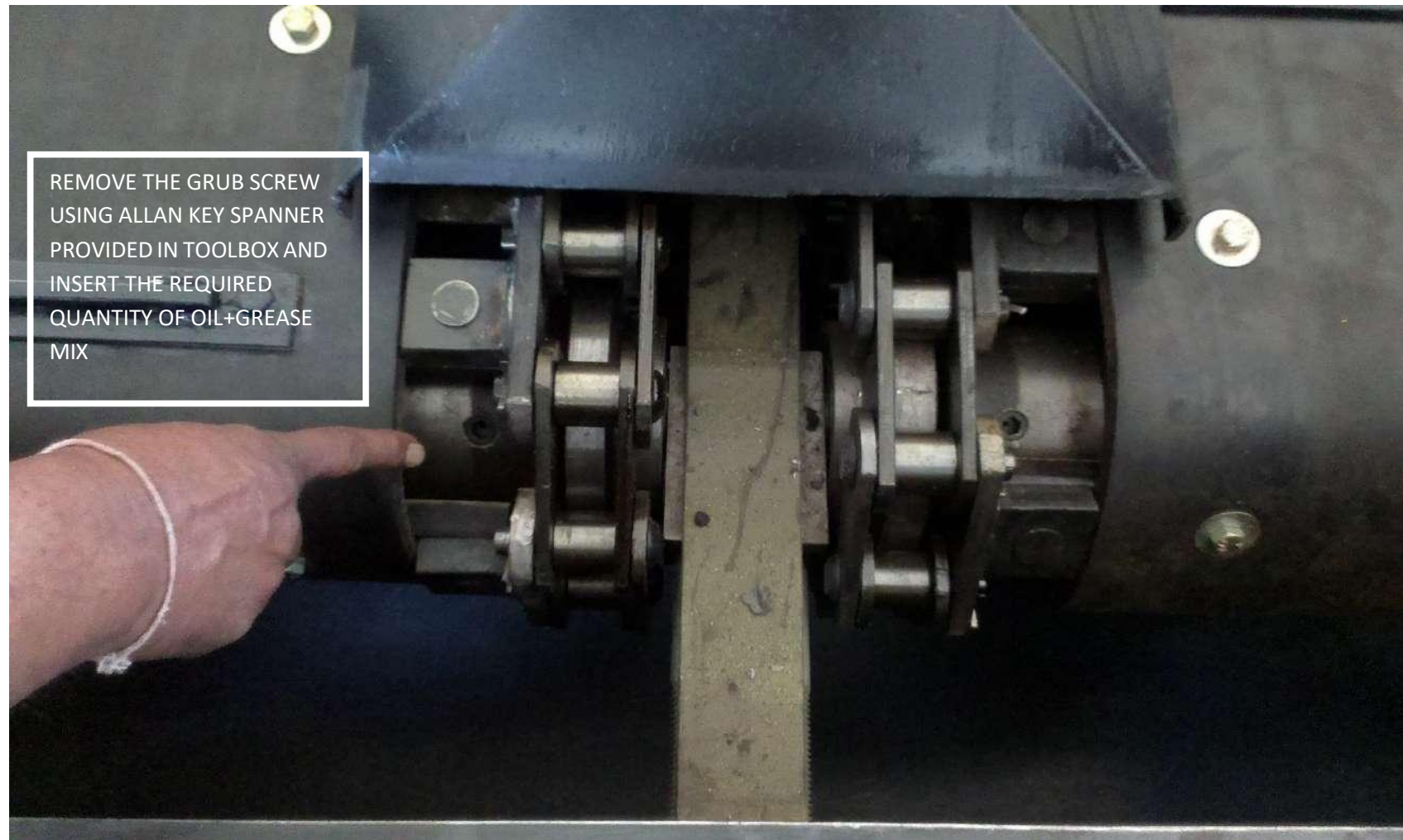
Remove the Front Plate on the Chain in front of paver above the Idler Rollers and rotate the roller until the Mixture Inlet Port is easy to access. Remove the Grub Screw and fill the roller completely with mixture.



(Fig 3)

1. LUBRICATION PORTS

UNIPAVE[®] ESP-05



(Fig 4)

2. INSPECTION AND LUBRICATION

INSPECTION AND LUBRICATION CHART

Follow the below mentioned chart for Lubrication and Inspection of Paver parts. Lubricate the parts according and check the wearing of parts at mentioned time intervals.

Sr. No	Name Of Part	Lubrication			Inspection Period
		No. Of Points	Type	Period	
1	Traction Drive Wheel Chain Set	2	A	Daily	Refer Point No. 35
2	Conveyor Drive Chain Set	2	A	Daily	Refer Point No. 35
3	Auger Drive Chain Set	2	A	Daily	Refer Point No. 35
4	Intermediate Shaft Drive Chain Set	2	A	Daily	Refer Point No. 35
5	Main Auger Shaft Square Housing	2	A	Daily	Monthly
6	Main Auger Shaft Round Housing	2	A	Daily	Monthly
7	Extension Auger Shaft Round Housing	2	A	Daily	Monthly
8	Traction Drive Chain Wheel Pedestal Bearings	2	A	Daily	Weekly
9	Tamping Shaft Pedestal Bearings	8	A	Daily	Monthly
10	Tamping Shaft Hanger Pedestal Bearings	8	A	Daily	Monthly
11	Vibration Shaft Pedestal Bearings	8	A	Daily	Monthly
12	All Idler Chain Wheel Bearings	4	A	Daily	Monthly
13	Chain Tightening Bracket Chain Wheels	4	A	Daily	Monthly
14	Chain Box Upper Shaft Housing	2	A	Daily	Monthly
15	Brake Master Cylinders	4	E	Weekly	Monthly

2. INSPECTION AND LUBRICATION

Sr. No	Name Of Part	Lubrication			Inspection Period
		No. Of Points	Type	Period	
16	Brake Pedal Hinges	4	A	Weekly	-----
17	Steering Tie Rod Ends	6	A	Weekly	Quarterly
18	Steering Jack Tie Rod Ends	2	A	Weekly	Quarterly
19	Push Rollers	4	A	Weekly	Quarterly
20	Distribution Gearbox	1	D	Weekly	Quarterly
21	Engine Oil	1	B	Weekly	Weekly
22	Front Equalizer Axle Shaft	2	A	Monthly	Half Yearly
23	Front Wheel	4	A	Monthly	Quarterly
24	Traction Gearbox	1	D	Monthly	Quarterly
25	Drive Wheel	4	A	Monthly	-----
26	Drive Rollers	2	G	Quarterly	Half Yearly
27	Idler Rollers	2	G	Quarterly	Half Yearly
28	Auger Chain Box	1	G	Quarterly	Half Yearly
29	Hydraulic Oil In Tank	1	C	Quarterly	Weekly
30	All Diesel Pipe Connections	All	-----	-----	Monthly
31	All Hydraulic Pipe Connections	All	-----	-----	Monthly
32	All Hydraulic Hose Pipe Connections	All	-----	-----	Monthly
33	Conveyor Chain Setting	2	-----	-----	Monthly
34	Screed Plate	3 or 5 (for 5.5m)			Monthly
35	All Chains	10	-----	-----	Weekly

Sr. No	Name Of Part	Lubrication			Inspection Period
		No. Of Points	Type	Period	
36	Hopper Floor Plates	4	-----	-----	Yearly
37	RADIATOR	1	F	Weekly	Weekly

RECOMMENDED LUBRICANTS

TYPE OF LUBRICANT	LUBRICANT	SPECIFICATION
A	GREASE	CASTROL PREMIUM LONGLIFE GREASE NLGI 3
B	ENGINE OIL	ENGINE OIL 15W40
C	HYDRAULIC OIL	SAVSOL HY FLUID AW68
D	GEAR OIL	SAVSOL GEAR OIL EP-90
E	BRAKE FLUID	TVS GIRLING DOT-3 HEAVY DUTY BRAKE AND CLUTCH FLUID
F	COOLANT+WATER(3Lts:26Lts)	TVS GIRLING EZ-COOL COOLANT CONCENTRATE GREEN
G	A+C (1kg:2Lts)	Grease and Oil as specified for A and C type of Lubricant.