

DIRECTORATE GENERAL BORDER ROADS

GENERAL MAINTENANCE INSTRUCTION NO. 68

ON

MAINTENANCE AND LUBRICATION OF WAGON DRILL (DW 50)

Aim

1. To enumerate the details of periodic and preventive maintenance and lubrication of Wagon Drill (DW 50).

Summary

2. Maintenance is essential to prolong the life of the equipment, keep it working efficiently at all times, minimize the breakdown and downtime. This is achieved by regular periodic and preventive maintenance.

Action by

3. (a) User units: To carry out periodic Inspection/Maintenance and preventive maintenance, at regular intervals as per details given in succeeding paragraphs. Arrange for timely repairs by field workshops to improve onroad worthiness of the equipment and arrest development of major defects.

(b) Field Workshop: To check the record of maintenance and lubrication in the log-book of the equipment during its inspection and repairs, if carried out as per maintenance and lubrication schedules given in this instruction. Advise user units, if any discrepancy is noticed.

Details

4. Details of maintenance and lubrication alongwith the periodically have been tabulated in appendices to this instruction as under:-

- (a) Periodic and preventive maintenance of the equipment as per Appx 'A'
- (b) Lubrication of the equipment as per Appx 'B'.

GMI No. 68 dated 15 May 1972

**Appendix 'A' to HQ DGBR GMI No
68 dated 15 May 72**

PERIODIC AND PREVENTIVE MAINTENANCE OF WAGON DRILL (DW 50)

1. Follow the maintenance procedure as given below for efficient performance and optimum life from the equipment: -

- (a) Lubricate each part and check that there is no leakage
- (b) Check that there is no loose or deficient nut or bolt in any part. Tighten or replace as necessary.
- (c) Check that each valve handle is properly fitted in its place.
- (d) Check the air pressure of the tyres.
- (e) Adjust the sag of the feed chain
- (f) Drain the air system.
- (g) Clean the air strainer
- (h) Cover the air motor after operation, so that it may be protected from rain water.
- (j) Clean the slide-way of the drifter on the upper part of the shell.
- (j) Clean the slide-way of the drifter on the upper part of the shell.

Nomenclature	After 5 Hrs	After 10 Hrs	After 30 Hrs	After 60 Hrs	After 300 Hrs
Lubricator case	Supply oil (caltex drifter lubricant EP, or equivalent, Qty 2.0 Quarts)	-	-	-	-
Hand Winch case	-	-	-	-	Change oil
Reduction Gear case	-	-	-	-	Change oil
Air motor bearing	-	-	Lubricate with grease	-	-
Guide roller pin	-	Lubricate with grease	-	-	-
Reduction gear bearing	-	-	Lubricate with grease	-	-
Sprocket pin	-	Lubricate with grease	-	-	-
Rear wheel hub	-	-	-	Lubricate with grease	-
Front wheel hub	-	-	-	Lubricate with grease	-
Feed chain guide shell (surface)	Lubricate with grease	-	-	-	-
Front wheel frame pin	-	Lubricate with grease	-	-	-
Knuckle pin	-	Lubricate with oil	-	-	-
Hand winch lever (Ratchet)	-	Lubricate with oil	-	-	-
Drifter	Lubricate with grease	-	-	-	-