DIRECTORATE GENERAL BORDER ROADS

GENERAL MAINTENANCE INSTRUCTION NO 62

ON

MAINTENANCE AND LUBRICATION OF 30 KVA KOMATSU GENERATING SET

Aim:-

1. This instruction lays down the details of maintenance and lubrication of 30 KVA KOMATSU GENERATING SET.

Action :-

2. (a) **User Units** :- All units holding the equipment will carry out maintenance and lubrication.

(b) Field Workshop: - To check the "Record of Maintenance and lubrication, in the log-books of the Equipment during its inspection and repairs, if carried out as per Maintenance schedule given in the instruction. Advise user units, if any discrepancy is noticed.

Details :-

3. Maintenance and lubrication chart of this equipment is shown as per Appendix 'A' to this instruction.

HQ DGBR GMI No 62
Dated 08 Mar 1972.

END

Appendix 'A' to HQ DGBR GMI No 62 dated 08 Mar 1972

MAINTENANCE AND LUBRICATION OF 30 KVA KOMATSU GENERATING SET

Nomenclature	Daily/10 Hrs	Weekly/60 Hrs	Monthly/250 Hrs	500 Hrs	1000 Hrs
Fuel Injector Nozzle	-	-	Check injection pressure i.e, 120 Kg/Cm2, spray condition and tightness. Correct or replace. Operate the lever of the nozzle tester at the rate of 5-10 strokes minimum, paying attention to the followings :- (a) Accurate periodical injection should be obtained. (b) Main jet should be of the straight cone with the angle of 4^0 (c) Jet should be ended with a snap without dripping.	-	-
Fuel Filter	-	Drain fron the bottom through drain cork.	Clean or replace element.	Replace filter element.	-
Oil Sump	Top up and check pressure on gauge.	-	Change oil.	-	Clean inside, wash section poll and screen.
Oil Filter	-	Drain from the bottom through drain cork.	Clean in side. Clean or replace element.	Replace filter element.	-
Air Cleaner	-	Remove dust on	-	-	-

		collector cap. Clean inside oil bath, filter gauge, centrifugal type seperator and replace oil.			
Radiator	Check water level and top up.	Clean core.	Operate engine and drain water from radiator bottom and engine drain cork. Refill water from filter.	Wash with Soda solution.	-
Water Pump.	-	Lubricate with grease.	-	-	-
Fan belt	-	Check and adjudst by shifting gererator.	-	-	-
Electric wiring.	-	Tighten loose connection.	--	-	-

Nomenclature	**Daily/10 Hrs**	**Weekly/60 Hrs**	**Monthly/250 Hrs**	**500 Hrs**	**1000 Hrs**
Fuel Tank	Refill at the end of the previous day	-	-	-	Clean fuel tank
Front base.	-	-	Refill grease.	-	-
Inlet/Exhaust valve	-	-	Check and adjust valve cleaner.	-	-
Cylinders	-	-	Check compression pressure.	-	-
Governor and FIP	-	Check oil level	Change oil	-	-
Techometer Elbow	-	-	-	Refill grease.	-
Hour meter	-	Refill oil hole	Refill grease cap.	-	-
Charging Generator/Starting	-	-	(a) Clean dirty Commutator.	-	Refill grease.

Motor			(b) Check brush contact, wear of brush, pressure of brush spring. Replace if badly worn. (c) Adjust commmutator to specification as under :- (i) Clutch gap : 0.5 mm (ii) Serviceability limit : 0.3mm (ii) Engage switch in : 2-3 mm Contact point gap to be Maintained.		

HQ DGBR GMI No 62 dated 08 Mar 1972.

END