

**MAINTENANCE INSTRUCTIONS FOR (YUGOSLAVIAN) WHEELED
TRACTOR TIGAR T-120 SK FITTED WITH CUMMINS DIESEL ENGINE
NHC4**

MAINTENANCE INSTRUCTION NO; 23

1. The maintenance required to be carried out for Tigar tractor T-120 SK is sub divided as under: -

- (a) Maintenance during RUNNING IN PERIOD.
- (b) Periodic maintenance.
- (c) Special maintenance.

Maintenance during RUNNING-IN-PERIOD

2. First 100 hours of operation of the machine will be considered as the RUNNING IN PERIOD. During this period the engine should not be loaded to its maximum capacity and the maximum load should be restricted as under :-

- (a) During 1st 50 hours - Upto a maximum of 50% load
Corresponding to an engine speed of 1400 RPM
- (b) From 50 to 100 hours - Full load may be approached gradually

3. In addition, the following tasks need special attention during this period.

(a) After 50 hours of operation:-

- (i) Change oil in engine oil sump, air cleaner and oil filter.
- (ii) Check and tighten cylinder head bolts and nuts.
- (iii) Check and adjust tappet clearance
- (iv) Check oil level in convertor and Side Reductors.

(b) After 100 hours of operation:-

- (i) Change oil in convertor, Transmission, Reductor, in Chassis, Side Reductors, hydraulic system, Servo and Brake system.
- (ii) Clean magnetic filter fitted on gearbox.

Periodic Maintenance:-

4. Periodic maintenance as indicated in appendix 'A' should be carried out regularly. The schedule lays down the tasks to be carried daily after every 50 hrs, 100 hrs, 200 hrs, 400 hrs, 1000 hrs, 1500 hrs. Upto 10 hrs of operations considered as an average operational hours per day. In case the tractor is put to

a continuous working for more than 10 hrs it should be ensured that daily maintenance is carried out after 10 hrs of operation.

5. Tractor should be lubricated in accordance with the lubrication chart given in Appx 'B' to these instructions. For lubrication the recommended lubricants should only be used. In the event of any recommended oil being out of stock, equivalent recommended oil should not be mixed. In that case the oil in the machine should be drained out and equivalent recommended oil is refilled.

6. The periodicity for check and replacement of the lubricant indicated in the lubricant chart refer to normal operation condition and normal temperature. In unusual conditions (extreme cold or dusty conditions) of operation in respect of track and engine parts, periodicity of lubrication may be modified.

Special maintenance: -

7. Besides the periodic maintenance the points enumerated below should be strictly looked into. These points will avoid serious damage to the machine.

- (a) The prescribed grade of lubricant should ONLY be used.
- (b) No two equivalent grades of lubricant be allowed to mix.
- (c) Lubrication as per the chart (Appendix'A') should be carried out the periodicity for check and replacement of the lubricant can be altered by SO I/ SO II EME at HQ CE (P) depending upon the terrain and environment, under intimation to this Dte.
- (d) During operation of tractor the oil temp in the convertor should be between 80°C -100°C and should not exceed 120°C.
- (e) During operation of tractor the oil temp in the convertor should be between 12 -16 Kg/Cm².
- (f) Steering clutches should be engaged only when necessary.
- (g) If the steering clutch slides, do not operate the tractor, as this will burn the plates.
- (h) Slidings may be due to either worn or oily plates. If oily wash them in gasoline or benzole while warm ie immediately after removal from the tractor. If worn out, turn the segment and the outer disc be moved backwards by 3 mm.