

DIRECTORATE GENERAL BORDER ROADS

GENERAL MAINTENANCE INSTRUCTION NO. 73

ON

MAINTENANCE OF IDLER WHEEL ASSEMBLY (PART NO. 21485-2) AND TRUCK SUPPORTING-ROLLERS PART NO. 21440-1, 21445-1 OF CRAWLER TRACTOR T-100 M (USSR)

Aim

1. This instruction outlines the maintenance and lubricants to be used for Idler Wheel and Track supporting Rollers of Crawler Tractor T-100 M (USSR)

Item affected

2. (a) Idler Wheel Assembly (Part No. 21485-2)
(b) Track Supporting Rollers (Part No. 21440-1, 21445-1).

Defects

3. The axles and bearings of Idler Wheels and Track supporting Rollers get burnt and bearing metal ground into fine metal particles.

Investigation report

4. Lubricants to be used for Idler Wheel and Track Supporting Rollers is oil HD-30 in summer and oil HD-40 in winter, but certain units used oil C-600 or a mixture of oil C-600 and grease. Chief inspectorate, East European vehicles, Ahmednagar, investigated the defect and attributed the failure of the bearings and the seizure of the axles to improper lubrication resulting in excessive rise in temperature. The breakage of the components is not considered due to faulty material or heat treatment.

Action suggested

5. To obviate the defect, the following action will be taken immediately by the units holding Crawler Tractor T-100 M (USSR):-

(a) Flush out the oil in all the 10 Track spring rollers and 2 Idler wheels of each tractor.

(b) Fill in 550 CC to 650 CC of HD 30/HD 40 Oil in each one of the truck supporting rollers and Idlers Wheels as under:-

(i) Oil HD 30 (in winter)

- (ii) Oil HD 40 (in summer)
- (c) Use Grease pump (part No. 27301) " illustrated on page 114, Fig 146 of Tractor T-100 M, and Engine D-108 spare part catalogue" or other suitable pump to fill oil as per para 4 above so that the oil is pumped in effectively.
- (d) Periodicity of filling and flushing of the oil should be strictly adhered to vide instructions laid on page 43 of the Technical service manual, extract of which is reproduce below for compliance:-
 - (i) During initial 100 hours running of tractor, check oil level and top up if necessary.
 - (ii) Every 120 hours of tractor operation, flush out old dirty oil completely and fill in new oil.

GMI No. 73 dated 10 Aug 1972