

HEADQUARTERS
COMMUNICATIONS ZONE, ETOUSA
OFFICE OF THE CHIEF ORDNANCE OFFICER
APO 887

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ETC ORDNANCE TECHNICAL INTELLIGENCE REPORT NO. 247

SUBJECT: German Heavy Wheeled Tractor, Radschlepper, Type 175L

Observations by: Major C. D. Becker, Ord. Tech. Intell. Team No. 3

1. GENERAL:

The Radschlepper, type 175L, is a German heavy duty prime mover. The most unusual feature of the vehicle is that cleated metal wheels, 4 ft. 10 in. in diameter, are employed in place of the usual pneumatic tires or tracks. It is believed that the primary use of the vehicle was in ice or snow. The maximum speed is 16 km. per hour.

2. CHARACTERISTICS:

- a. Vehicle Designation Radschlepper, Type 175L
 Sd Kfz Designation RSO
 Approximate Weight 7-1/2 T
- b. Markings:
- (1) Outside of Vehicle
- | | | | |
|------------------------|------|-----------------------------|------|
| Kfz | RSO | Anhangerlast (Trailer Load) | 5.0T |
| Leergew (Empty Weight) | 7.4T | Ve Kl | 1a |
| Nutzlast (Pay Load) | 4.0T | | |
- (2) Nomenclature Plate:
- | | |
|--|-------|
| ASAP. A.G. fur AUTOMOBILEINDUSTRIE WERKJUNGBNNZLAI BOHMEN | |
| Baumuster (Model) | 175 |
| Nutzlast Kg. (Pay Load) | 4000 |
| Leergewicht Kg. (Empty Weight) | 8000 |
| Zulgesamtgewicht Kg. (Permissible Total Weight) | 12000 |
| Zulansdruck vorn Kg. (Permissible Front axle pressure) ... | 4700 |
| Fahrgestell Nr. (Chassis) | 81426 |
| Baujahr (Year) | 1944 |
| Hubraum cm ³ (Pistol displacement) | 6024 |
| Enstort nach Gruppe (Ignition, group) | II |
| Zulansdruck hinten (Permissible rear axle pressure) | 7300 |
- c. Crew: probably two; Driver and Assistant driver.
- d. Dimensions:
- | | |
|------------------------|--------------|
| Overall length | 20 ft. 3 in. |
| Overall width | 7 ft. 3 in. |
| Ground Clearance | 1 ft. 9 in. |
| Overall height | 9 ft. 6 in. |
- e. Suspension:
- | | |
|--------------------------------|--------------|
| Type of wheels | Iron |
| Diameter of wheels | 4 ft. 10 in. |
| Number of wheels driving | Four |
| Type of springing | Leaf Springs |
| Steering arrangement | Worm and nut |
| Wheelbase | 120 in. |
| Tread | Front wheels |
- f. Engine:
- Location: In front of cab.
 Type: Four cylinder, in-line, gasoline, air-cooled

R E S T R I C T E D

g. Transmission:

Type: Mechanical, selective, sliding gear.

Speeds forward: Five

Speeds reverse: One

h. Fuel tanks: There is one main fuel tank and a small fuel tank used in conjunction with the starter motor.

i. Starter Motor: The starter motor is a two cylinder air cooled motor that is cranked by hand. The exhaust from the starter motor is used to heat the primary engine. After the engine is warm enough a lever inside the cab is pulled and the starter of the primary motor is engaged.

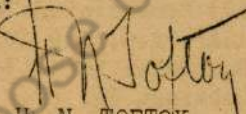
j. Air Filter: An air filter is located on top of the cab. Air is taken in through the filter, through an oil bath and then to an updraft carburetor.

k. Winch: The winch is located under the bed of the truck. It is controlled from inside the cab. The cable is 3/4 inches in diameter. When the winch is to be used, a small spade is lowered to the ground (Photo 4). The spade is held in the "up" position by a hook; the hook is connected by means of a cable to a lever on the inside of the cab. When the spade is to be dropped, the cable is pulled and the hook released. It is lifted back to the "up" position manually. A ratchet spool is used with the winch to insure uniform winding of the cable.

l. Cleats and Spikes: To aid in traveling in mud or snow, cleats are provided for both the front and rear wheels. For traveling on ice, spikes approximately two inches in length are provided.

m. Propellor shafts: This vehicle is unusual in that two propellor shafts are provided and that one shaft provides the power to one side of the vehicle. When testing the vehicle, blocks were placed under the right wheels so that they could not turn. The wheels on left side continued turning.

FOR THE CHIEF ORDNANCE OFFICER:


H. N. TOFTOY
Col., Ord. Dept.,
Assistant.

Incl.: Photographs 1 thru 5.



Photo No. 1
Right Side view of
the Radschlepper.
Note the large
cleated wheels and
the position of
the air cleaner.



Photo No. 2
Left side view.
Markings on the
door are those
mentioned in
Par. 2 b (1).



Photo No. 3
Motor from left
side; starting
motor in lower
left corner. Note
cooling fins on
air-cooled
cylinders.



Photo No. 4
Rear view. Cable spools and spade shown. Note cleats and spikes and holes in wheels for additional spikes.



Photo No. 5
View from 3/4 right rear. Storage space for cleats spikes shown between wheels on side.





