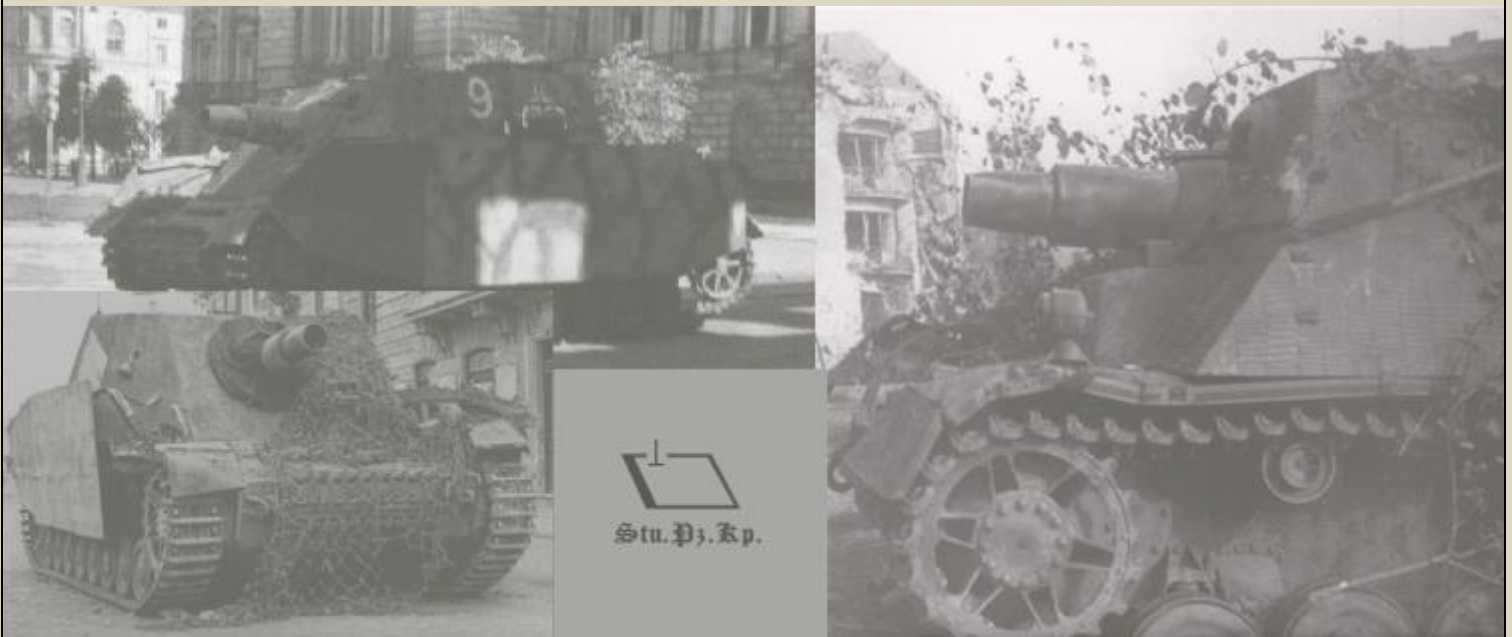


US MILITARY INTELLIGENCE REPORT

[Sd.Kfz.123 - Luchs]



HEADQUARTERS
COMMUNICATION ZONE, ETOUSA (FORWARD)
OFFICE OF THE CHIEF ORDNANCE OFFICE
APO 887

ETO ORDNANCE TECHNICAL INTELLIGENCE BULETIN #27

6 October, 1944.

Section I – Pz.Kpf. Wg.II Model L Tank (German)

Observations by 1st Lieut. George D. Drury, Ordnance Technical Intelligence Unit “E” attached to HQ First United States Army:

I. Pz.Kpf.Wg II Model L Tank. (Pz.Sp.Wg.II (Luchs)).

1. The subject vehicle is most generally referred to as the LYNX and is essentially a redesigned light tank of the Pz. Kpffw.II class. It is primarily intended for use as a reconnaissance vehicle and is well equipped with radio and intercommunication equipment.
2. The vehicle weighs approximately 11.8 long tons. It mounts a 2 cm Kw.K 38 with M.G. 34 coaxial. The suspension system is of the interleaved type utilizing torsion bars.
3. The subject vehicle was “knocked out” in the Falaise gap where the German Seventh Army was destroyed.

Following is the data on it:

a. Type Vehicle – Pz.Kpf.Wg. II Model L Tank:

b. Identification Marks:

(1) Chassis Number	200154
(2) Turret Number	200159
(3) Maker's code	bnd
(4) Model Letter	L

c. Dimensions:

(1) Length of hull	14 ft.	2-1/2 ins.
(2) Length (including muffler)	14 ft.	10 ins.
(3) Width hull	4 ft.	9 ins.
(4) Width supstr. front	5 ft.	5-1/2 ins.
(5) Width supstr. center	5 ft.	11-1/4 ins.
(6) Width of tracks	8 ft.	½ ins.
(7) Width of vehicle including fenders	8 ft.	3 ins.
(8) Track centers	6 ft.	10-1/4 ins.
(9) Distance centers front and rear bogie wheels	7 ft.	1-1/4 ins.
(10) Height	6 ft.	7 ins.
(11) Inside turret diameter		49-1/2 ins.

d. <u>Armor:</u>	<u>Thickness:</u>	<u>Angle:</u>
(1) <u>Turret</u>		10°
Front	30 mm	10°
Gun Mantlet	30 mm	Rounded
Sides	20 mm	20°
(Undercut sides)	20 mm	10°
Rear	20 mm	20°
Top	8 mm	Horizontal with slight slope at front.
(2) <u>Superstructure:</u>	<u>Thickness:</u>	<u>Angle:</u>
Front	30 mm	7°
Sides	16 mm	Vertical
Top	10-12 mm	Horizontal
(3) <u>Hull:</u>		
Nose plate	30mm approx.	23°
Glacis plate	21mm	73°
Sides	21mm	Vertical
Tail plate	21mm	27°
Belly front plate	10mm	70°
Belly center plate	10mm	Horizontal
(4) <u>Type of construction</u>	– all welded.	

e. Armament:

Armament consisted of a normal 2 cm. Kw.K 38 with and M.G.34 coaxial. Markings on the barrel of the 2 cm. gun were as follow:

2 cm. Kw.K 38
Waffe Nr. 3228
Rohr. Nr.1
S
20.06
cse

Traverse – 360° hand power Max. Elevation 18°, maximum depression 9°. No auxiliary devices such as flamethrowers, smoke projectors, etc., were apparently fitted.

f. Sighting:

No Data was available as to exact sight used as this had been stripped from vehicle. Sight is mounted on the right of the main armament.

g. Ammunition:

Total ammunition carried was apparently 33 clips of 8 rounds each. Of the ammunition remaining in the vehicle, there were 10 clips of A.P., 15 clips of H.E. and 2 clips of Tungsten Carbide core. All ammunition was normal 2 cm.

Stowage – the clips ere stowed as follows: 10 clips lower left side of fighting compartment on floor with the remaining clips stowed in the sponson side.

h. Suspension and tracks:

- | | |
|---|-----------------|
| (1) Number of bogie wheels on each side | 5 |
| (2) Fitted with rubber tires | Yes |
| (3) Diameter of wheels | 2ft. 4-1/2 ins. |
| (4) Type of springing <u>Torsion bar with shock absorbers fitted on outside of hull on front and rear bogie wheels.</u> | |
| (5) Track pitch | 3-3/4 ins. |
| (6) Width of track plate | 14-1/4 ins. |
| (7) Drive | Front sprocket |
| (8) Length from center of sprocket to center of idler | 11 ft 1 in. |
| (9) Length of track on ground | 7 ft. 10 ins. |

i. Crew:

Three with duties as follows:

Gunner/loader.
Assistant driver/radio operator
Driver.

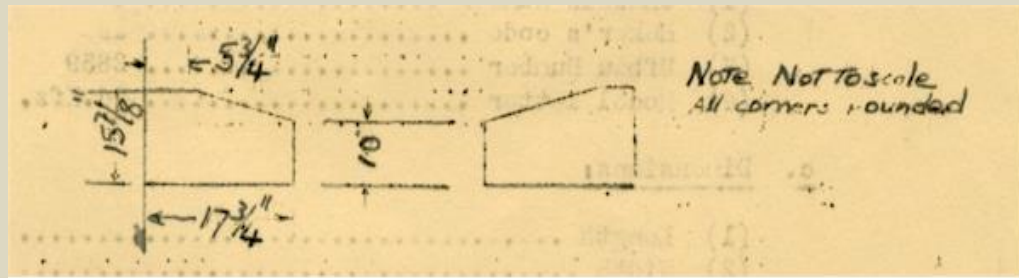
j. Engine:

Presumed to be HL 66

- | | |
|--------------------------------------|---|
| (1) Fuel | Gasoline |
| (2) Number of Cylinders | 6 in line |
| (3) Location of radiators | Rear of engine |
| (4) Location of fuel tanks | Right front engine compartment. |
| (5) Instruments on instrument panel: | |
| Speedometer | - VDO; Scale: 0-80 kph (reading 2880 km.) |
| Tachometer | - VDO; Scale: 300-3200 rpm. |
| Water temp. | - Scale: 40-120° C. |
| Oil pressure | - Scale: 0-8 kg/cm ² |

k. Hatches:

No cupola fitted. Two hatches are located in the superstructure top plate, one over both driver and assistant driver/radio operator. These are hinged at their outer edge and open down inside the tank. Both are of similar construction and have the following dimensions as shown by the sketch following:



Two hatches are in turret. One of these is located in the turret top in the Left rear corner and the other in the turret rear. The one in the turret top is round and is 17-1/4 inches in diameter. That in the turret rear is rectangular measuring 13-1/4 x 21-1/2 inches.

l. Observation:

In turret position:	<u>Glass fitted:</u>	<u>Armored Flap:</u>
(1) Periscope in top hatch		
(2) Periscope right center		
(3) Right rear turret side vision slit in flap.	Yes	Yes
In superstructure:		
(1) Driver's and Assistant Driver's vision ports	Yes	Yes
(2) Two small holes for driver just above vision port	No	No
(3) Vision ports to left of diver and right of co-driver.	Yes	Yes
Vision slits in each port.		

m. Wading - No apparent device fitted.

n. Speed - Estimated to be approximately 30 mph.

o. Intercommunication:

All radio equipment had been removed by Allied Forces but provision for two radios was evident.

4. Five photographs of the above Tank are enclosed as Appendix "A"





