CENTRAL INTELLIGENCE AGENCY

INFORMATION REPORT

This material contains information affecting the National Defense of the United States within the meaning of the Espionage Laws, Title 18, U.S.C. Secs. 793 and 794, the transmission or revelation of which in any manner to an unauthorized person is prohibited by law.

C-O-N-F-I-D-E-N-T-I-A-L

COUNTRY	Poland		REPORT NO. 50>	(1
SUBJECT	1. Army Tanks 2. Equipment	s and Tank Equipment of Miscellaneous Units	DATE DISTR.	9 May 1955
	50X1	-	NO. OF PAGES	10 50X1
DATE OF INFO.			REQUIREMENT NO.	
PLACE ACQUIRED			REFERENCES	
	THE S	SOURCE EVALUATIONS IN THIS REPORT AR THE APPRAISAL OF CONTENT IS TENTA (FOR KEY SEE REVERSE)		
50X1 50X1				
50X1 Attac	hed is	as received		
		LIBRARY SUBJECT AND	AREA CODES (18)
· · · · · · · · · · · · · · · · · · ·		3-02-0406	5/55	
		261.721	$\frac{1}{N}$	
		261.716 261.713	N N	
		261.725 261.715	N N	
		261 • 718 261 • 724 261 • 724	N N <u>55M</u>	
		261 • 721 261 • 717 261 • 723	55M (+1)	
		261 - 123 261 - 725 264 - 61 514 - 3	55M 55M 55M	
		J+T•3	55M	

C-O-N-F-I-D-E-N-T-I-A-L

STATE	#x	ARMY	#x	NAVY	#x	AIR	#x	FBI	AEC	_	Ι .	T
										*		

COUNTRY Poland SUBJECT 1. Army Tanks and Tank Equipment 2. Equipment of Miscellaneous Units DATE OF INFORMATION DATE DISTR. 28 Mar. 1955 NO. OF PAGES REFERENCES: PLACE ACQUIRED THIS IS UNEVALUATED INFORMATION		CONFIDENTIAL			
COUNTRY Poland SUBJECT 1. Army Tanks and Tank Equipment 2. Equipment of Miscellaneous Units DATE OF INFORMATION 50X1 REFERENCES: THIS IS UNEVALUATED INFORMATION		5 0X1	REPORT	•	
SUBJECT 1. Army Tanks and Tank Equipment NO. OF PAGES) DATE OF INFORMATION 50X1 REFERENCES: PLACE ACQUIRED 50X1			+ A	50X1	,
2. Equipment of Miscellaneous Units DATE OF INFORMATION 50X1 REFERENCES: PLACE ACQUIRED 50X1	COUNTRY Poland		DATE D	STR. 28 Mar. 1955	
PLACE ACQUIRED 50X1	SUBJECT 1. Army Ta- 2. Equipme	nks and Tank Equipment nt of Miscellaneous Uni	NO. OF	PAGES)	
THIS IS LINEWALLIATED INFORMATION	DATE OF INFORMATION	50X1	REFEREN	ICES:	
50X1 THIS IS UNEVALUATED INFORMATION	PLACE ACQUIRED	50X1			
50X1 THIS IS UNEVALUATED INFORMATION					
THIS IS UNEVALUATED INFORMATION					
	50X1	THIS IS UNEVALUATED INFOR	MATION		
	Tanks, Tank Equipment,	and Other Equipment of	Polish Army Uni		
	Tanks, Tank Equipment,	and Other Equipment of	Polish Army Uni	() al	
<u>งบ-76</u>					0×2
production in the USSR. The QCS used the SU-76 only as a training aid in order to conserve the other more modern armored standard vehicles such as two types of the SU-76, one conventional one mounted on a standard T-34 chassis. I the latter standard an open fighting compartment.	SU-76 Secturers at the OCS in production in the USSR order to conserve the other T-34, JS-2, etc. [and one mounted on a second one mounted one mounte	n Poznan stated that th . The QCS used the SU- other more modern armore two types of	is vehicle was n 76 only as a tra ed standard vehi the SU-76, one	o longer in ining aid in cles such as conventional	0X 50 50 50 50 50 50 50 50 50 50 50 50 50

Declassified in Part - Sanitized Copy Approved for Release @ 50-Yr 2013/09/24 : CIA-RDP82-00046R000400490004-0

CONFIDENTIAL - 2 -

-		and the second second	and the second second
TOO	700	77	y Tank
	1 W m 1711	M NAQU	77 2000
		MA TICELLA	Y LCLUB

з. information relative to the secondary armament on the JS-tank: 50X1

Three MG, DTM, 7.62-mm, with 35 magazines of ammunition.

One HMG, DShK, 12.7-mm, with a K87 sight and 1000 rounds of ammunition.

th: 15 t Two SMG's, 7.62-mm, PPS, M1943.

Four pistols, TT Tokarev, 7.62-mm, M1933.

Twenty hand grenades, F-1.

One Very pistol, with 16 to 20 rounds of assorted colors.

J8-3 Heavy Tank

50X1

50X1

7.

50X1 5. 50X1

the 6th Hy Tk Regt stationed at Zary (Serau N 51-35, E 15-99) or Zegan (Sagan N 51-37, E 15-19), was equipped with

50X1 JS-3 heavy tanks.

An officer lesturer at the OCS told the candidates that the turnet of 50X1 the JS-3 would freeze if hit by gunfire anywhere near the turret ring.

the reason the JS-3 heavy tank was rarely seen in Polish armored units was because it was either 50X1 unserviceable due to some manufacturing defect or a military secret.

8. data on the interior of the JS-3 heavy tanks:

Stowage of Ammunition

- (1) Ammunition for the 122-mm gun was stored both in the turret and hull. About 16 projectiles and four or five cartridge cases were stored at the rear of the turnet along the turnet ring. Special receptacles, partially padded with rubber, were provided which protected the projectiles and cases from damage and prevented their moving or shifting. The reason for the difference in the number of projectiles and cartridges stered in the turret was that the size of the cartridge case prehibited storing more than four or five in the turret, whereas the projectiles were relatively small.
- (2) Additional projectiles and cartridge cases were stored in metal boxes on the floor of the tank, directly below the turret. To prevent their moving or shifting, the metal boxes were secured to the floor by metal screws. The spent cartridge cases were inserted into the box in order to keep the fighting compartment free. No exact figures could be given by source relative to

Declassified in Part - Sanitized Copy Approved for Release @ 50-Yr 2013/09/24 : CIA-RDP82-00046R000400490004-0

CONFIDENTIAL - 3 -

types and number of rounds carried in the JS-3 heavy tank.

b. Fuel Tanks

- (1) There were four external and four internal fuel tanks on the JS-3 tank. One of the external tanks and one of the internal tanks contained engine oil, whereas the other tanks contained diesel fuel. Locations of the internal tanks were as follows: Two tanks were in the hull, one on each side, at a point approximately where the front track return roller was secured; two tanks were in the engine compartment and were positioned on both sides of the engine. Four external tanks were attached to the exterior of the tank, two on each side, and visible.
- (2) The capacity or dimensions of the fuel tanks could not be given by source. However, he stated that the tank could travel from 250 to 300 km without using the exterior fuel tanks.
- (3) The exterior fuel tanks were filled by removing a threaded cap, which was located at the top center of the tank. A funnel with a fine mesh screen was used when filling the tank. The threaded cap was secured to the fuel tank by a small chain to prevent its loss.
- 50X1 (4) the external fuel tanks were not jettisoned but were removed and stored at an assembly area prior to engaging in combat. This point was brought out several times during his OCS training and he added that all armored troops were instructed along these lines.
- c. Steering and Turret Controls
- 50x1 (1) the steering mechanism employed in the JS-3 was the controlled differential type. Steering controls consisted of two levers, each lever controlling a track. The tank was maneuvered by braking one track.
 - (2) The steering levers, gear shift and accelerator were located in the same position as in the JS-2 heavy tank.
 - (3) The turret could be traversed both manually and electrically. The turret motor was located on the left side of the turret wall.
 - (4) Power traversing centrols consisted of a round knurled wheel, measuring approximately eight centimeters in diameter. This wheel was located on the turret wall, to the left of the gun. Both the tank commander and the gunner used the same control wheel. Over-riding controls for the tank commander were not provided. The control wheel was calibrated and was turned right or left to traverse the turret. According to source, the turret traversed faster was the control wheel was turned further right or left from the zero point, which indicated the existence of a rheostat.

d. Other Features

(1) A rectangular or circular escape hatch was located on the floor of the tank, and positioned slightly to the right and rear of the tank driver's seat. The turret was dome shaped and did not have a turret basket. Tank commander's and gunner's seats revolved with the turret. Both of these seats were on the left side of the gun.

CONFIDENTIAL - 4 -

(2)	Ammunit	tior	ı dr	ums for	r the	DT	M, 7	. 62 - r	nm MC	were	sto	ored	in	the
50X1	turret	on	the	right	side	of	the	gun	and	near	the	turr	et	ring.
50X1														

T-34/100 Tank

T-34/85.

1.

9.

- In overall appearance the T-34/100 tank was very similar to the T-34/85 medium tank. the T-34/100 was slightly lower and had a wider turnet than the 50X1 50X1
 - The turret and sides of this tank appeared to have a greater slope, and the armor had a much smoother finish.
 - Suspension was of the conventional T-34 type with no modifications noted.
- d. Primary armament consisted of a 100-mm gun of an unknown type and 50X1 manufacture. the tube was somewhat longer and heavier than the 85-mm gun. A muzzle brake was not employed. However, a reinforcing ring was present at the muzzle end of the tube.
 - Secondary armament consisted of three MG's, DTM, 7.62-mm, mounted as follows:

One MG coaxially with the main armament.

One MG in front of the hull.

One MG extending through the turret at the rear.

- In addition to the MG's, the tank carried two PPS SMG's, 7.62-mm, M1943; one Very pistol; and 25 F-1 hand grenades.
- The turret was controlled electrically and had a separate motor for this purpose. The turret could also be controlled manually.

			-			
The tan	k engine was	described		_as the s	same as the	engi:
install	ed in the T-	34/85 tank	t. The onl	y modific	ation	
	was the addi	tion of a	model NK-1	.0 high pr	essure oil	pump
lieu of tank.	the model N	K-l employ	red on the	engine of	$^{\circ}$ the $T-34/$	/85 me

50X1

k. The crew of the new tank consisted of five men: the tank commander, driver-mechanic, assistant driver-mechanic, gunner, and loader. 50X1

T-34/100 tanks were to be issued only to separate tank battalions of the Polish Army. However, since the turret and recoil mechanism of the T-34/100 tank was weak and could not absorb the strain of the heavier caliber gun (100-mm), the T-34/00 tanks would not be produced in quantity until these deficiencies were corrected.

CONFIDENTIAL - 5 -

ጥ-34	Mediam	Tank	(Polish	Manufaa	+==== 13
1-7-	Mediam	Tally	(LOTISH	manurac	cure/~

10.

50X1

50X1

50X1

50X1

50X1

50X1

first tank in the summer of 1953 at an officer's tank demonstration given by the 16th Mecz Div at Czarne for the purpose of orienting officers of various branches of the service with new equipment in the Polish Army. this tank had been manufactured by the Joseph Stalin Foundry (Huta Imienia Jozefa Stalina) at Labedy (N 50-20, E 18-37). the Polish medium tank was designated as a T-34/45 or T-34/54, and was an improved version of the Soviet T-34/85 medium tank. the tank to have an 85-mm gun. The lecturer read its characteristics from a notebook, and its characteristics, capabilities, and performance were similar to the T-34/85 medium tank produced by the USSR. From a distance of 50 m, the Polish version appeared to be like a typical Soviet T-34/85 medium tank.

- 11. The following differences between the Polish model and the Soviet model $_{50\text{X1}}$ were noted
 - a. Exterior armor finish was much smoother on the Politish model.
 - b. The Polish model had two smoke canisters mounted at the rear of the tank. The canisters had a capacity of about 20 liters and could be electrically ignited and dropped by the tank crew. Upon ignition, they reacted as large smoke pots and created a smoke screen, under which the tank could safely avoid enemy gunfire and escape.
 - c. The Polish model had locking bands and retaining springs, which were secured in place at the end of the track pins, and served to prevent the track pins from coming loose and throwing a tank track.
 - d. The Polish model came equipped with additional track shoes, which were estimated to be approximately one-third the width of the regular track. These extra track shoes could be attached to every other track section whenever the occasion arose to cross swampy or extremely soft ground. This reportedly increased the tank's flotational characteristics.
 - e. The Polish model had a modified transmission, which provided an additional gear or forward speed. The gear enabled the tank to travel at a minimum of two kilometers per hour and negotiate turns at this speed. Thus, with the increase in torque, the gear allowed the tank to cross extremely rough and/or swampy terrain and still fire while moving.
 - f. The turret was operated manually and electrically, with the tank commander having over-riding controls over the gunner. The tank commander's periscope had a sighting scope incorporated in its mechanism. This sight enabled the tank commander to aim the gun with about 80% of the accuracy of the gunner's telescope. This enabled the tank commander to indicate a target readily for the gunner who could make the finer adjustments needed on his own sight.

the periscope was of tubular design rather than the conventional box design found on US armored vehicles.

g. The Polish model of the T-34/85 contained a new type of direct
sighting telescope of Soviet design which
nated as a TSh-17. (See paragraph 12 for details concerning this telescope.)

CONFIDENTIAL - 6 -

h. Secondary armament consisted of two DTM 7.62-mm MG's (mounted in the same manner as on a Soviet T-34/85 medium tank); two PPS 7.62-mm SMG's model 1943; one Very pistel with 16 to 25 rounds of assorted colors; and 25 F-1 hand grenades. One MG was equipped with the standard PPU-ST sight.

50X1 considering the apparent duplication of the models and the absence of any major modifications, it was very likely that the Soviets had furnished the blueprints and perhaps the necessary equipment to produce these tanks at Labedy.

New Type Direct Sighting Telescope, Model TSh-174

TSh-15 t	the TSh-17 telescope was gradually replacing the telescope on the JS-2 122-mm heavy tank, the 122-mm and 152-
or guns;	and the medium tank being produced at Labedy.
similar adjust.	in general appearance the new telescope was very to the TSh-15, but that it was more versatile and simpler to

Characteristics:

Power of Magnification

2X (estimated)

Overall length

80 to 90 cm

Overall Weight

About 17 kg

Field of View

Unknown

Optical System

Believed to be generally the same as that used in the TSh-15 with the exception of the type and location of the reticle.

Filters

None

Reticle Light

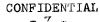
Yes

Eyeguard

Made of soft rubber, with a rubberized head rest.

Reticle

(1) A new type of reticle pattern was used which had graduations for HE (fragmentary), two types of AP ammunition (AT and HVAP), and a graduated scale on the right side of the reticle for use with the DTM 7.62-mm MG. (See page 9 for a memory sketch of the reticle pattern.)



	• 7
(2) 50X1 50X1 50X1	only one adjusting knob, which was located at the eyepiece end of the telescope. The adjusting knob, when turned, moved the center line in the reticle up or down. (Note:
50X1	and the other having only a horizontal line.
(3) 50X1	The reticle was located in the center of the telescope in an assembly described as an "Aiming Angle Box". The purpose of this box was to provide a means of adjusting the reticle to coincide with the optical axis of the sight and the axis of the gun tube.
(4)	For adjustment purposes, the gun tube was first bore sighted, using a standard muzzle bore sight, on targets 25 and 800 m distart. The telescope and the gun were then zeroed by adjusting the reticle pattern onto corresponding points of the target. The reticle was adjusted by using three keys, one which measured seven millimeters and the other two slightly larger in size. These keys were permanently attached near the telescope by small chains in order to prevent their loss.
Unidenti	fied New Type of SMG ⁵
SMG, PPS	these weapons were identical to the Soviet 7.62-mm, sml943, except that a wooden stock was used in place of the stal folding stock.
	from its
guard du formation	ike letter and serial numbers located on the receiver, deemed of Polish manufacture. No other stamps or marks were noted several soldiers equipped with these SMG's while on aty at the Military Technical Academy in Warsaw. No further intended on the Miscellaneous Units
f	and the second s
ment, vo	with the exception of the 7.62-mm TT Tokarev manufactured or assembled in Poland, all of the weapons, equip-ehicles, and motorcycles had been produced in 8 subsequent to WW II.
six unu	the spring of 1953, the 41st Armd Arty Regt at Czarne received sed JS-2 heavy tanks but gave about seven used JS-2 heavy tanks nidentified heavy tank battalion which had just been activated ear Czarne. they arrived by rail
and that	t the tags attached to the tanks contained Cyrillic writing, and him to believe that they came from the USSR.

50X1 50X1 15. 50X1 50X1 50X1 50X1

16. 50X1 50X1 50X1

50X1 17. 50X1

18.

19.

50X1 50X1

50X1

20.

During 1951,

CONFIDENTIAL

changed all but three or four of their 76-mm SP guns for an unknown number of T-34/85 medium tanks, JS-2 heavy tanks, and 122-mm SP guns. The three or four 76-mm SP guns which were kept were utilized only for

the 9th Ind Med Tk Regt ex-

	CONFIDENTIAL - 8 -
50X1	practical instruction purposes. in order to conserve the newly exchanged tanks and SP guns.
50X1	CHARLES OF PARTY OF PARTY.
21.	
50X1	Commonts
00/1	Comments
1.	Since the information on other armored vehicles
0X1	such as the SU-76, SU-85, SU-100, SU-122 (D-258), JSU-152, T34/76, T34/85, T-34/100, JS-2 and JS-3, was well-known and published in available references, only that information was obtained which did not correspond with DA Pamphlet 30-3-1 and other locally available references.
0X1	All information on items of new equipment is given
0X1	herein. All ammunition amounts given in this report represent
0X1	standard units of fire.
2.	Information available does not indicate that the Soviet T-34/85
0X1	medium tank and JS-2 heavy tank had a gyro-stabilizer.
0X1	the gun of the medium tank was normally fired from short halts but that the gun could be fired when the tank was moving slowly. The
0X1	gun of the JS-2 heavy tank was fired only during short halts or from a
	standing position.
0X1	This T/34 tank is the only vehicle mentioned in this report
3.	was of Polish manufacture. All other vehicles he believed
0X1	to be of Soviet manufacture.
4;	Information available indicates the TSh-17 to be the standard
0X1	Soviet sight employed in the JS-2 and JS-3 heavy tanks. A point of
0X1	interest is the fact that sketch of the reticle pattern closel
0X1	resembles that of the TSh-19 sight.
UXI	

6.

Declassified in Part - Sanitized Copy Approved for Release @ 50-Yr 2013/09/24 : CIA-RDP82-00046R000400490004-0

