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SECURITY INFORMATION

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CENTRAL INTELLIGENCE AGENCY

REPORT NO. [ ]

**INFORMATION REPORT**

CD NO.

25X1A

COUNTRY Germany (Russian Zone)

DATE DISTR. 5 April 1952

SUBJECT Russian Fuel

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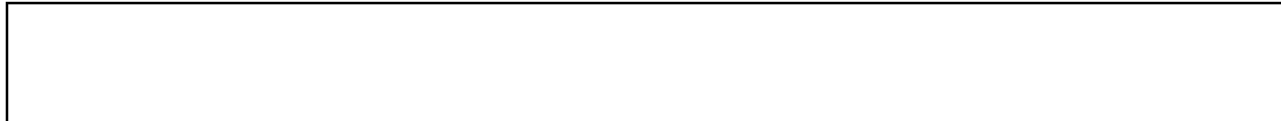
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NO. OF ENCLS. 2  
(LISTED BELOW)

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SUPPLEMENT TO REPORT NO. 25X1X



25X1

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On 19 November 1951, [ ] two samples of Soviet fuel from Neu Brandenburg-Trollenhagen (N 54/0 67) airfield. \*

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\* [ ] Comment. For analytical data of fuel samples, see Annexes 1 and 2. According to these analytical data, the evaporation points of the two fuel samples differ greatly from each other. The fuel with the specific gravity of 0.7340 has a distillation range with such low evaporation points that it possibly is aviation gasoline blended with a low boiling petroleum derivative. Because of its inflammability, this fuel is particularly suitable for starter motors in cold weather. It cannot be stated whether the fuel is suitable for jet engines since the tetra ethyl lead content could not be determined. The jet engine fuel with the specific gravity of 0.7480 is lighter than the previously known jet engine fuel with the specific gravities of 0.82 and 0.85. Its evaporation points are also lower than previously observed. It is possible that this specific fuel is used in winter for jet engines.

Document No. 7

Change in Class.

Declassified

Class. Changed To: TS S C 25X1

Auth: HR 70-2

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By: [ ]

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Annex 1

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Analytical Data

a. Quantity received :	150 cc	c. Distillation Range	
b. Color :	Pink	(ASTM)	
c. Odor :	Typical high-test gas	% Distilled	Tempo
d. Specific gravity :	0.7340	First drop	40
e. Tetra ethyl lead :	+	2 %	43
f. Water miscibility :	Negative	5 %	56
		10 %	66
		20 %	75
		30 %	80
		40 %	85
		50 %	90
		60 %	96
		70 %	102
		80 %	109
		90 %	123
		End point 98 %	149

Nature of Distillate: clear,  
colorless

REMARKS:

+ Quantity of sample insufficient for this determination.

Refractive Index 1.4052

CONCLUSIONS

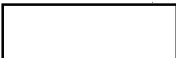
The physical characteristics determined conform to specifications adopted by Air Force and Navy Departments for use in the procurement of aeronautical supplies.

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Annex 2



25X1A

Analytical Data

a. Quantity received : 150 cc	g. Distillation range (ASTM):
b. Color : yellow	% Distilled
c. Odor : Petroleum distillate	Temp°
d. Specific gravity : 0.7488	First drop
e. Tetra ethyl lead : None	2 %
f. Water miscibility : Negative	5 %
	10 %
	20 %
	30 %
	40 %
	50 %
	60 %
	70 %
	80 %
	90 %
	End point 22 %
	Nature of Distillate: Light straw, cloudy

REMARKS:

Refractive Index 1.4470

CONCLUSIONS

The physical characteristics determined conform to U.S. standard specifications for Aircraft Turbine and Jet Engine Fuel.

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