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U. S. AND BRITISH SERVICES
FOR THE USE OF ALLIED FORCES

FUNCTIONAL ANALYSIS REPORT NO. F/A - 262

Date 10 August 1945

TARGET NO: 90:36-755

NAME OF TARGET: SASEBO OIL STORAGE

LOCATION: SASEBO HARBOR COORDINATES: 33°08'N 129°42'E

PHOTOGRAPHY:

Date	Mission	Print Nos
16 April 1945	3PR/5M147	2V:34-36
30 April 1945	3PR/5M180	3L:36-39
25 May 1945	3PR/5M227	3L:29-33

1. This report has been prepared from a study of aerial photographs and a consideration of evaluated ground information supplied by the Joint Target Group.
2. FUNCTION:
The installation is used for the storage of petroleum products.
3. LOCATION:
The storage depot is situated on the W side of SASEBO HARBOR about 2 miles SW of SASEBO Railroad Station.
4. SERVICES:
The depot is accessible by road and by sea and two large bunkering piers are situated at the S end of the depot. The warehouses on the N fueling wharf are also served by a single track railroad.
5. IDENTIFICATION OF FACILITIES:
 - 1 Four oil storage tanks 25' diameter
 - 2 Four oil storage tanks 25' diameter
 - 3 Two oil storage tanks 25' diameter
 - 4 Area in which 5 tanks, 110' diameter, have been dismantled
 - 5 Possible pump house
 - 6-13 Warehouses in which packed petroleum products (kerosene, petrol, lubricants) may possibly be stored
 - 14 Fueling wharf
 - 15-17 Storage sheds
 - 18 Unidentified shed
 - 19 Boiler house
 - 20 Pump house
 - 21 Very small oil tank 10' diameter
 - 22,23 Warehouses in which packed petroleum products may be stored
 - 24-27 Buried oil tanks each 110' diameter
 - 28 Two very small tanks 10' diameter
 - 29-31 Oil tanks 80' diameter
 - 32-35 Buried oil tanks each 110' diameter
 - 36 Pump house
 - 37,38 Unidentified small sheds
 - 39-43 Storage sheds probably for packed petroleum products
 - 44 Oiling wharf
 - 45,46 Fueling piers
 - 47-49 Coal piles
 - 50 Very large buried oil tank 225' diameter
 - 51 Area possibly housing four 70' diameter tanks

5. IDENTIFICATION OF FACILITIES (Continued)

52,53	Warehouses
54-56	Entrances to underground storage

6. DISCUSSION:A TANKAGE

Already on the cover of 16 April 1945 it can be seen that dismantling of the five large tanks (4) had begun and by 23 May 1945 all five tanks had been taken down, though on the latter date some of the plates from the sides still lay on the site. Possibly these tanks have been removed as they formed a conspicuous landmark from the air drawing attention to the depot and the skillfully camouflaged remaining tanks.

The ten small tanks, 25' diameter (1, 2 & 3) are situated in deep gullies and are covered over with camouflage netting.

In the westernmost part of the area an elongated oblong mound lies at the W side of a hill slope. This mound possibly houses four 70' diameter oil tanks. Five entrances in the lower part of the mound probably give access to the tanks by road connecting with the main part of the depot.

The three 80' tanks are set up in excavated hollows in the foot of the hills and are partly protected by natural rock besides which they are surrounded by hexagonal light structures supporting camouflage netting.

The eight 110' tanks (24-27; 32-35) have all been constructed in excavations in the hills and lie below surface level. The tanks are probably covered with gravel cement and soil and are overgrown by vegetation, at the center of most of these small ventilators can be distinguished.

The very large 225' tank has been set up in a large excavation in the hillside and has been completely buried in a similar manner to the 110' tanks. This tank is protected over $\frac{3}{4}$ of its wall space by natural rock and earth and concrete slopes down from the roof over the remaining $\frac{1}{4}$. At the base of this slope a small entrance can be seen which gives access to valves etc at the base of the tank.

The capacities of the available tankage cannot be accurately assessed because heights are not measurable. The 40' tanks which have been dismantled are reported, however, to have had a capacity of 55,000 barrels each; it, therefore, seems reasonable to assume that the buried 110' tanks have the same capacity. For the remaining tanks a normal average height is assumed for tanks of the specific diameters.

The total capacity of the storage in tanks is assumed as follows:

1 tank	225' diameter	300,000 barrels
8 tanks	110' diameter	440,000 barrels
3 tanks	80' diameter	105,000 barrels
4 tanks	70' diameter	100,000 barrels
10 tanks	25' diameter	20,000 barrels
TOTAL		965,000

This figure of 965,000 barrels neglects the three very small 10' diameter tanks which are probably in use for fuel consumed by the installations.

B. WAREHOUSES

It is not certain if the N group of warehouses (6-13) store packed petroleum products but may possibly perform that function and if they do so then one or more of them is probably equipped with barrel filling and can filling apparatus. It does seem probable, however, that the remaining storage sheds (15-17; 22,23;39-43; 52,53) are used for such storage.

It seems, therefore, probable that the total storage facilities (tankage and warehouses) may be capable of holding a stock of well over one million barrels.

Entrances to underground workings or storage space (54-56) are noted near the Fueling Piers, but the type of storage and size are not determinable.

7. VULNERABILITY:

The tanks are the vital objectives of the depot but they appear to be only vulnerable directly on the roofs. At this point the three 80' tanks (29-31) and the ten 25' tanks (1-3) which do not appear to have special roof protection, would be easily destroyed by direct hits of light weight. The remaining tanks have special protection - thickness and nature of which are not known and must be considerably less vulnerable even from the roof.

8. ACTIVITY:

The presence of a few M.T. on the roads and the presence of barges in the vicinity of the quays indicates the depot to be in use.

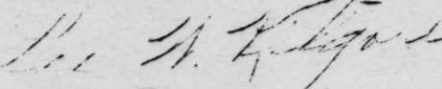
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