

Tasks of Department of supply for engine attendance
and transport of GW (SK1 Adm. Cu III).

In Allied occupied German territories the Navy owns considerable stocks of raw materials for fuels and lubricants not yet dressed for use.

In particular there are
about 180 tons rawmaterials
for composition of fueloil.

At the end of April the stocks were stored mainly in the following districts:

a) Patura (residue of crude oil) residue of lignite tar,
residues of crack and hydrogen process:

Achim near Bremen	66000	tons
Bloedede near Hamburg	6000	"
Wesermünde/Nordenham	10000	"
Flensburg near Kiel	2000	"
Sande near Wilhelmshaven	10000	"
Linz/Bonau	19000	"

b) Crude oil:

Achim near Bremen	40000	"
Bloedede near Hamburg	13000	"

total: 185000 tons

Singly stored in different districts the above mentioned rawmaterials are not usable. The German production of petroleum was almost completely used for the production of benzine, gasoline and lubricating oils. Therefore usable liquid fuels out of petroleum were not available.

Petroleum, which was not fit for preparation of lubricating oil, was cracked for gasoline. Only the residues of the latter process and also the residues of lubricantproductions were available for fuels.

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For the production of fuels were furthermore used:

shale-oil

residue of lignite-tar distillation

residue of hydrogenation of pit-coal and lignite

pitch-coal crude tar

steam coal pitch.

All these rawmaterials were not without further ceremony
usable as fuel because they partly

1. were too solid an got into a liquid state only at a tempe-
rature of 40° Celsius,
2. contained too much asphalt,
3. contained too much liberated carbon,
4. were difficult to spray by the fuel burners on account of
their high surface tension.

To compensate these bad qualities, the rawmaterials had
to be mixed with artificial oils produced in Germany such as
tar oil of lignite and pitchcoal. The quality thus reached was
not yet to compare with the normal quality of the worldmarket.
Therefore high valued burners had to be developped.

To precipitate the freed carbon and to prevent the preci-
pitation of asphalt and paraffine the mixture of the original
rawmaterials had to be carried out under a certain sequence
and under different temperatures.

A part of the available tar-oil of pitch-coal was mixed
with crude-tar or tarpitch of pitch-coal from the Ruhr-district.
The result was a "pitch-fuel" with 40 % pitch in it. It suited
well the general situation of the german economy during the
last two years.

There are

about 2000 - 3000 tons
of rawmaterials of lubricating oil and waste, which can be
transformed into usable lubricants for the Navy in the naval

plants

plants of Hamburg, Fiemhude and Wilhelmshaven. Specific demands have to be considered thereby. Lubricating oils for the minesweepers of the type H 35 for example have to undergo a special refinery to secrete all wear-out materials as the quality of the lubricating-oil filling would decline to quickly caused by the high temperature of the working stems.

As there was a shortage of animal fats the required grease Lubricants had to be produced from synthetic fatty acids.

A high grade and special distillat as feed water is necessary for the smooth and delicate working of the highpressure steamengines on the minesweepers. It needs permanent admixture of a certain dose of NaOH, Na₃ PO₄, Na₂ SO₃.

This distillat was purified and prepared by the Department Qu III in special plants at Hamburg and other places.

The Navy disposes of 23 tankplants in different districts with a capacity of 2 1/2 million cubicmeters, which were used so far as necessary for the fore mentioned tasks.

The Department Qu III also had under its direct management the "Trosschiffverbund" a shipping company with 25 great and small tankers. Specified shipslist is attached. It was their task to supply ships at sea with fuels, ammunition, water and provision as well as to carry out any required transport of liquids.

At the outbreak of war the "Trosschiffverbund" was militarized and the shipspark enlarged according to the requirements of the Navy.

Several of the tankers are damaged and need repairing.

All the spareparts for deck and engine of the supplyships under 1 to 5 are stored in different localities in the Northsea-region.

Dockpossibilities for them are only to be found in Hamburg, Bremerhaven or Wilhelmshaven.

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All the tankers of the arsenals and the naval supplybases were also directed by the Department Qu III (list of these tankers will be forwarded).

It is evident, that the main-work of the Department Qu III lies in the Northsea-region, chiefly at Hamburg.

The difficulties of the working process need an early, circumferential and careful preparation of the different working stages. Therefore it seems necessary, to send some members of the staff of Qu III to Hamburg. We beg to grant permission for an official trip to Hamburg (also asked for at OKW Skl) to two officers and one official.

It furthermore seems essential by reasons mentioned above to transfer the staff of the "Trottschiffverband" (6 officers) to Hamburg.

This staff is embarked on fishingcraft "C.I. Busch" (505 gross tons) temporarily used as floating office.

To be refitted and used as fishingcraft "C.I. Busch" also will have to return to her Northsea-homeport.

It is begged to grant sailing permission for "C.I. Busch" from Flensburg to Hamburg.

Skl. Adm. Qu III

Eng. Rear Admiral and Dipl. Ing.

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