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30/HB6-1

COPY

S.T.2.,

Hotel Victoria,
Northumberland Avenue,
LONDON, W.C.2.

B.M. 3400/S.T.2(e)

5 Sep. 45.

Director of Supplies and Transport,
21 Army Group,
B.A.O.R.C.I.O.S. Group 30 (Utilisation and Performance Group)

C.I.O.S. re-constituted as B.I.O.S. are arranging to send a team to 21 Army Group area, about mid-September, consisting of two or three civilian technical officers, as a sampling party. Transport, and the necessary facilities to assist the work of this party in collecting samples, will be arranged through B.I.O.S. with 21 Army Group (G.T. and C.W.) who will be informed of the time of arrival of the civilian officers sent out by the petroleum products Utilisation and Performance Group.

A special appeal has been made by this group that we obtain your co-operation in enabling a large representative batch of German P.O.L. samples to be collected, and we have been requested to suggest that one of your Petroleum Chemist Officers joins the team on their arrival, contact being made by G.T. and C.W., 21 Army Group H.Q., to whom a copy of this letter will be sent.

*Major Robinson
to meet group
at Bad Ayn
Hausen*

Lt. Col. O.A. Bell of your S.T.2 branch, is familiar with certain aspects of these activities as he accompanied an earlier investigating team. He should, therefore, be in a position to brief the Petroleum Chemist Officer you elect to send.

*Bückeburg
10 mi from B.O.*

(Sgd) C. A. Sims,
Brig.

for Major-General,
Director of Supplies and Transport.

HFJ/AW

Copy to: Ministry of Fuel and Power (Pet.Div.), Attn. A.R.M. Murray Esq.
G.T. and C.W., 21 Army Group (via Min. of Fuel and Power)

PROPOSED TRIP TO 21 ARMY GROUP AREA.

PART I. INTERROGATION.

Objects.

1. To obtain further information on petroleum products manufactured in this area.
2. To obtain further information on testing methods, specifications and product utilisation.
3. To obtain further information on manufacturing methods.
4. To obtain information on the organisation of the petroleum industry by interrogation of officials evacuated from Berlin to this area.

INFORMATION REQUIRED.

Hamburg is the centre of the petroleum refining industry in Germany and should yield very valuable detailed information. Trips made to date have, however, not given all the information required and it is hoped that the present trip will enable the missing data to be obtained. This is listed below:-

1. Lubricating Oil Manufacture - Wehrmacht & Civilian Grades.

Lube oils - auto and motor grades - were manufactured by:

RHENANIA at ~~ESSEN~~, CRASPOCK, WILHEIMSBURG and REISHOLZ.

DEURAC/NERAC at ~~WISSEN~~, - Dungs on filter Dachs I, Porto; Dr. W. L. H.

DEUTSCHE GASOLIN at ~~DORTMUND~~.

DEUTSCHE VAGUE A.G. at OSLEBSHAUSEN and SCHULAU.

JULIUS SCHILLER at ~~ESSEN~~.

HARMSEN at ~~WIL~~.

SCHLEIMANN at ~~ESSEN~~.

DEUTSCHE KROOL at ~~ESSEN~~.

Maj. White

ext. 2253, BADO - Gullaykline

Benzel Verhulst Document

How were these oils manufactured?

From what crudes?

What were the refining and finishing methods?

What were the yield data? Quantity-flowsheets should be obtained.

What were the specifications?

To whom were the oils despatched?

What quantities were produced?

Who were the Government Departments concerned?

2. Gasolines, Diesel Oils, Kerosines and Fuel Oils.

The same Companies marketed these products and similar information should be obtained.

3. Lubricating oil blending is a specialised business and the above Companies should be carefully interrogated to obtain as much information as possible on this subject, including full details of the performance tests carried out on the blended oils.

What does were employed for (a) ring sticking, (b) Detergency, (c) Oxidation Stability, (d) Viscosity Index improvement, (e) Pour Point lowering, (f) ~~viscosity~~ improvement, and for any other requirement?

On what basis were these dopes chosen? Get laboratory test data where possible.

From whom were the dopes purchased? and to what specifications?

What dopes were examined and found unsatisfactory?

What new dopes were in course of development at the end of the war?

Where possible get manufacturing methods of all the dopes together with samples.

Samples of lubricating oil blend stocks should be obtained together with manufacturing specifications.

4. The above mentioned Companies also produced a wide range of Hydraulic oils, Brake fluids, Shock absorber oils, Anti-corrosion oils, Running-in oils, Cutting oils, Lubricants for instruments and clocks and lubricants for V weapons, torpedos, submarines and for a whole variety of special purposes. Complete information on these is urgently required, including:-

- (a) Composition
- (b) Methods of manufacture
- (c) Specifications
- (d) Samples of finished oils and components
- (e) Performance tests.

The same information is required with respect to greases, weapon oils, recoil fluids, etc., etc.

5. Rhenania sold large quantities of lubricating oil extracts for use in the rubber, paper, plastics and paint industries. Complete information is required on the manufacture of these materials, the special properties required for each of these uses and how they were obtained, complete specifications, inspection data and samples.

It is also required to know to what extent the solvent refining process was adjusted to yield these particular extracts, what these adjustments were and what finishing treatments were given to the extracts. How do Furfural, phenol, dibosol and SO₂ extracts compare? Was the aromaticity of the extracts increased in any way before sale? If so, how?

How were the extracts sold - individually to consumers or through a marketing organisation? Who set the specifications? What new uses for extracts were being developed at the end of the war?

A complete list of all the users of extracts is also required.

6. Complete information is required on the grades of petroleum paraffin wax produced, how these were manufactured, what were the

specifications and for what purposes were the waxes employed. The same information is required in respect to petroleum asphalts, resins and naphthenic acids. Samples of each should be obtained.

7. At Shell Haus, Hamburg, is believed to be a comprehensive collection of technical documents dealing with the operations of Rhenania and DAAG. These should be carefully examined and all valuable information removed. Deutsche Vacuum technical records are at Bad Oldesloe and Schulau and Standard Haus, Hamburg. Deurag/Nerag documents are at Misburg.

8. In addition to the targets mentioned in paragraphs 1 and 7 above, which should be investigated in detail, the following should be submitted to full inspection and the leading personnel interrogated:-

INTAVA LABORATORIES at BAD OLDESLOE and SCHULAU. -

CHEMISCHE-PHYSICALISCHE VERSUCH ANSTALT at DANISCH
NEINHOF - KIEL. -

LUNEBURG WACHSWERKE - LUNEBURG.

MINERALÖLWERKE ALBRECHT - HAMBURG

EBANO ASPHALT - HAMBURG.

SOHLAFHORST CHEMISCHWERKE - HAMBURG.

MINERALÖL und ASPHALTEWERKE - OSTERMOOR

9. Rhenania ZI Department at Hamburg handled all Wehrmacht Specifications and Contacts. The personnel in this Department should therefore be fully interrogated. A complete list of all Shell products supplied to the Wehrmacht with complete specifications, compositions and manufacturing details should be obtained.

10. Technical men interrogated on the above subjects should include the following:-

Rhenania.

RUMPT, SEELES, GOLDHOFER - Wehrmacht supplies of lubes and greases.

ROESSIG, LEUDTKEMEYER - Gasolines and Lubes.

GOLDHOFER - Wax and Lube Oil Extracts.

Prof. ZERBE - Research

all at SHELL HAUS, HAMBURG.

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Deutsche Erdol, A.G.

The leading Technician is GUNTHER SOHLICHT - now at WIEPZE near CELLE with the Berlin Office Technical Staff. At Hamburg the Chief Chemist is DR. BANDT, - *Wilhelmsburg.*