ADDRESS NAVY DEPARTMENT,
BUREAU OF SHIPS
Section 341
REFER TO FILE NO.
QC/NTME(341)

NAVY DEPARTMENT

BUREAU OF SHIPS
WASHINGTON 25, D. C.

FOR VICTORY BUY UNITED STATES WAR BONDS AND STAMPS

14 December 1945

Subj: Microfilm of German Technical Documents - Introductory Statement for.

1. During the course of its field trips to examine German synthetic oil plants and to interrogate German technical personnel, the members of the Oil Team of the U.S. Naval Technical Mission in Europe obtained a number of technical documents for examination. Some of these documents were directly related to certain subjects in which immediate reports were desired and were incorporated in Technical Reports as microfilm appendices. Other documents, while probably of equal technical value were, due to limitations of time and translation facilities, saved for more detail study and examination. These latter documents have been indexed and microfilmed by the Bureau of Ships to preserve the technical information therein for future use and to make possible the dissemination necessary to give each activity an opportunity to study the particular topics of interest to it.

2. The documents in this series cover a variety of subjects. They are not arranged in any particular sequence, but have been separated arbitrarily into sections of a convenient size. An index to each section has been prepared and appears at the beginning of the appropriate section. In addition, the indexes of all sections have been photographed at the beginning of the first reel.

3. The contents of this film are not to be taken as a complete record of the information on any subject obtained by the U.S. Naval Technical Mission in Europe. Rather, reference should be made to the complete set of films which have been prepared by the Bureau of Ships if it is desired to review all the data available.

4. The Bureau of Ships, Research and Standards Branch, would appreciate receiving, for its technical files, a copy of any translations made of these data.

T A Solberg

T. A. Solberg
By direction of
Chief of Bureau

FROM BUREAU OF SHIPS, NAVY DEPARTMENT, WASHINGTON 25, D. C.

01226 — 014461

01226

The Wesseling Fuel Installation and its operation from 1941-1944.
A complet summary of Activities.

NOTE BOOK

Patent Application of Ruhrchemie on the Subject of CO-Hydrogenation -

A collection of patent application on the Fischer-Tropsch Synthesis dating from 1941 through 1944. These patent application are generally not available in the U.S. Some 80 patents are listed, most of them are complete others merely listed with patent claim.

01786 – 01873

01786

BOOK OF STANDARDIZED GLANDS & PACKINGS FOR PUMPS AT LEUNA

01874 - 02536 01874

In A Paper Bag - Identified as

AVIATION GASOLINE - GENERAL ALKYLATION
AT-ET, DHD, KK.

1. Preparation of High Fuels from 5058/6434 Gasoline -190°C. from Scholven - after the method of D.H.D. Aug. 28, 1942. 9 pgs. (High Pressure Experiment Lu 558).

2. The working up of Zeitzer TTH-Gasoline to High Performance Fuel after the method of DHD Oct. 23, 1943. 8 pgs. (High Pressure Experiment Lu 1).

3. Overall cost Figures for automobile Gasoline and DHD preliminary product from coal in a Lu-Op. Plant 11/4/42. 12 pgs.

4. Testing of DHD-catalyst on clay from Oppau and clay from Dr. V. Füner. 2/4/1942. 16 pgs.

5. A letter dated June 3, 1942 concerns DHD Gasoline making. Include two flow sheets of the methods.

6. Quality of DHD-Gasoline from "estnischen". Shale Oil 9/19/41

7 Possible operating Date and Capitalization of the DHD Plant Jan. 30, 1943.

8. File Notice of a meeting in Berlin on 2/18/44 concerning various problems of gasoline and lubricating oil. - 2/18/44.

9. DHD-Balance Sheet 2/17/44.

10. A chart showing yields and properties of aviation gasoline from different methods.

11. Production of DHD-Gasoline from 5058 pre-hydrogenated Gasoline from Merseburg. Hydrogenation 11/1/41. I.G. Farben. Lubwigshafen) 9 pgs + 12 tables + 5 drawings.

12. AT244 - Exchange of Experience conference - May 14 and 15, 1944 at Leuna. contains a summary of the conference on T-52 Process and 18 papers delivered at the conference. (204 pgs.)

13. Scheme for the Redistillation of DHD Gasoline Drawing # M8626(2)-4 A flow sheet.

14. AT-Catalyst Plant at Heydebreck Feb. 10, 1943 contains a report on production of active clay 10 pgs.

15. Flow Sheet of the AT (activated clay) plant - 1941.

16. Report of visit to Leuna by V. Costeanu. 7/2/44. Contains report on the various process of making aviation fuel. The report includes flow sheets and drawing.

17. File notice - Leuna works - May 2, 1944 - Auxiliary drying the dehydrogenation catalysts at the AT Plant with Isobutane.

18. Productuon of nigh anti-knock isoparifin Fuels by means of alkylating alephatic Hydrocarbons - Dr. Pohl. Leuna 1/6/43. 33 pgs.-drawing and graphs.

19. HV-CRI - Catalysts for catalytic cracking - April 17, 1939 - I.G. Farben. 23 pgs.

20 Catalytic Cracking in Fixed Bed - Report on the K. K. Experimental Plant Me56 at Leuna - Dr. Pobloth. Sept. 1943 (Report # 414 of the Experimental Laboratory) 17 pgs. ∕ flow sheets and diagrams.

21 Experiment and theory of Catalyst Regeneration by the Catalytic Cracking-Sluice Method - Otto. Aug. I, 1943. 33 pages plus 27 pgs. of flow sheet drawings.

22. Catalytic cracking - according to the conditions of June, 1942 Leuna July 27, 1942. Investigation of catalyst regeneration in moving bid chamber and Fixed Bed Chamber - Otto.

23. Delivery Specification for "Arobin".

24. The determination of normal paraffins contact in Gasoline, Middle Oil and Parraffins - Dr. Leithe - Aug. 2, 1940 - Oppau 7 pgs ∕ tables.

25 Kybol-Plant - June 2, 1942 Ludwigshafen Report covers the plants for the production of propyl-gasolines from propane and the making of Kybol from Ethylen and Propylene.

26. Aromatization of Middle Oil from Bituminous Coal Liquefaction. April 10, 1941. 12 pgs.

27. Technical Possibilities of Increasing Aviation Gasoline Production - Sept. 23, 1943 Berlin 5 pgs.

28. Gas Explosions - W. Jost - A reprint from Zeitschrift J. Electrochemie 47, 680-87(1941).

29. Experiments on Flame Velocity I. concerning the theoretical calculation of Flame Velocity- W. Jost and L. V. Muffling. A reprint from "Zeitschrift & Physikalische Chemie (A) 181 208-14, 1938.

30. The Physical-chemical Basis for combustion in Engines W. Jost - Reprint from Vol. 9 May, 1939 of the German Academy of Air.

31. Calculation for a Benzol Hydrogenation Plant Me 958a Leuna Aug. 22, 1942 Covers the reaction, equipment and calculation necessary for the process - 11 pgs. Flow sheets and diagrams included.

32. Alkylation of Kogasin - Cracked Products - June 8, 1943. 3 pgs.

33 Report on the experiment. Using a drying oven for dehydrogenation catalysts in Me 956. Leuna works 8/14/44. 6 pgs + drawing.

01878

34. Report on the Improvements in Dehydrogenation Chamber - Leuna works Sept. 10, 1943. 3 pgs. ∠ 2 drawings and 12 graphs.

35. Catalytic Studies - Position as of Feb. 1, 1944 Report # 1104.

36. Graphs - Miscellaneous nature - 18 in all.

37. T52-B4 - Alkylation of Basic Butylaldehyde misture - A flow sheet.

38. T52-B3 - Alkylation with dehydrogenated N-Butylaldehyde - Flow Sheet.