

UNITED STATES NAVAL TECHNICAL MISSION IN EUROPE

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From: Chief, U.S. Naval Technical Mission in Europe.
To: Chief of Naval Operations, (OP-16-PF)
Subject: Miscellaneous Documents on Fuel Oils - Forwarding of.

- Enclosures:
- (A) "The Miscibility of Fuel Oils" by W. Deman. Original in German - reprint from Gludeauf - No. 5 - War 1940. 8 Translators with Graph attached.
 - (B) "Experiments on the Mutual Solubility of Tar Oils" by J. Fluckthun - Original in German - Form "Forschungsbericht" January 1942. 8 Translations with graphs attached.
 - (C) "A Viscosimetric Process for Determining the Miscibility of Hydrocarbon mixtures particularly Fuel Oils" by W. Deman and H. Osbach - Original in German form "Forschungsberichte" February 1943 8 Translators with graphs attached.
 - (D) "The Determination of the Pumpability of Fuel Oils" by H.R. Osbach and J. Tegethoff - Original in German form "Forschungsberichte" February 1943. Not translated.
 - (E) I.G. Farben report on Fuel Oil experiments in Stall 804 - High Pressure 15.7.1941 - 21.9.1941.
 - (F) Manual of German Navy entitled "The Care of Lubricating Fuel Oil and Liquid Fuels" German - M.Lv. Nr 847 1938.
 - (G) Report "The Jentsch Fuel Oil Tester" English Translation with curves.
 - (H) Report on "Fuel Oils & their Blends" form C.P.V.A.M. by Dr. Meyer Report covers extensive inspection and blending work on synthetic and natural fuels - A very important report.
 - (I) Report on the "German Naval Fuel Oil Specifications".
 - (J) Report on "Diesel Fuels & Their Blends". Covers material on Diesel fuel as (8) above does for fuel oils.
 - (K) Folder containing data on Jentsch Test Procedure.
 - (L) Folder containing incidental reports and letters on German Fuel Oil.

1. Enclosures (A) through (L) are herein forwarded. It is believed that these enclosures will be of interest to Bureau of Ships Code 341.

cc: Bureau of Ships Code 341

A. Voripateff
A. VORIPATEFF
Commander, U.S.N.R.
Acting

1 A

- (A) Report "Fuel Oils & Their Blends" by Dr. Meyer of the Chemische Physikalische Versuchs Anstalt. A most important work describing the experimental work on blending many fuel oils, both natural and synthetic for the German Navy. Not translated.
- (B) Report "Diesel Fuels and Their Blends" by Dr. Meyer of C.P.V.A. This report covers Diesel fuels as (A) covers boiler fuels. An exhaustive report on many blends of both natural and synthetic fuels.
- (C) "The Miscibility of Fuel Oil" by W. Deman. Original in German - Report from "Gluckauf" No. 5. Special Number, Year 1940. Translation into English & Graphs attached.
- (D) "Experiments on the Mutual Solubility of Tar Oils" by J. Phickthun, Hamburg. Original in German from "Forschungsberichte" January 1942; English translation & Graphs attached.
- (E) "A Viscosimetric Process for Determining the Miscibility of Hydrocarbon Mixtures, Particularly Fuel Oils" by W. Deman & H. Asbach - Original in German from "Forschungsberichte" February 1943. English Translation & Graphs attached. Also German Patent Application.
- (F) "The Determination of the Pumpability of Fuel Oils" by H.R. Asbach and J. Tegethoff, Original in German from "Forschungsberichte" February 1943 - Not translated.
- (G) Report on the Jentsch Test Unit. This test unit is standard equipment on all German Naval vessels and is used for determining flash and fire points, Conradson Carbon and other standard inspections. It also measures the ignition properties of Diesel fuels by combustion in an atmosphere of oxygen.
- (H) Two (2) articles from (a) special number of "Angewandte Chemie" 45, 593 (1932) and (b) "Oel und Kohel" - report on mineral oils 1934 (3rd Vol.) Reports by Dr. Karl Zerhe and Dr. Franz Exkert on "Properties of Self Ignition and Chemical Constitution", also "The Relationship Between Self Ignition and Motor performance". Not translated.
- (I) Two (2) reports on "Experiments made to Increase Fuel Oil Output from Hydrogenation of Coal Plant"
(1) Ludwigshaven 18-5-1942
(2) " " 15-7-1941
- (J) Various papers dealing with German Naval Fuel Oil Stocks and demands at beginning and end of war. Also capacities of storage dumps. Also abstract of Enemy Oil Committee on German Synthetic Fuel Plant Capacities.
- (K) Specifications for German Naval Fuel
- (L) Flow Sheet & Operating Instructions of Linde-Frankel Liquid Air Plant.
- (M) Reports on investigation by the Germans of French Bitumen Deposits at Bastenne and the possibilities of converting same to marine fuels.

ADDRESS NAVY DEPARTMENT,
BUREAU OF SHIPS

Section 341

REFER TO FILE NO.

QC/NTME(341)

NAVY DEPARTMENT

BUREAU OF SHIPS

WASHINGTON 25, D. C.



14 March 1946

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 and are grouped, in general, according to subject matter within a section. The index of all sections has 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.

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