# INDEX - T.O.M. REEL 305 (Original Designation FIAT Reel X-116) PB 182060 Documents taken from Steinkohlenbergwerk Rheinpreussen, Moers

Frames	
1593-1630	Gasoline synthesis in the liquid medium. Report No. II. (Three graphs and one diagr. attached.) No author or date.
1631-1672	Carbon monoxide hydrogenation in the liquid medium. Report No. III. No author or date.
1673-1683	X-ray and magnetic investigation of iron catalysts. (Report starts with p. 165.) No author or date. (Figs. 24-27, which are graphs, are also included.)
1684-1716	Formation of the cycle of the iron catalyst for the normal pressure operation. No author or date.
1717-1787	Gasoline synthesis with iron catalysts in the gas phase. Report of laboratory research from Feb. 1942 to Feb. 1945. Report signed by Dr. Ackermann. (Twenty-eight tables included in report.)
1788-1795	Report on the Reichsamt investigation with iron catalysts at medium pressure in straight passage. Report dated July 5, 1944, Schwarzheide. Author's signature illegible. (One graph attached.)
1796	<pre>Citle page. II. Alcohols, esters, ketones</pre>
1797	ote on the dehydration installation for alcohols at reibstoffwerk Rheinpreussen, Meerbeck. No author or date.
1798-1801	Yield determination, in the working up of a reaction mixture of 75% sulfuric acid and gasol. Report signed by Grimme. No date.
1802-1806	The steam pressure increase of gasoline by methanol and ethanol. Report signed by Grimme, dated May 27, 1938.
1807-1809	Balance of the alcohol formation in the semi-technical experiments at Ruhrchemie. Report signed by Grimme, dated Sept. 3, 1938.

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1810-1814	Solubility of polymer gasoline in water-alcohol, water-alcohol-sulfuric acid and water-alcohol-sulfuric acid-ester mixtures. Report dated Nov. 18, 1938. No signature. (One graph attached.)
1815-1817	Balance investigation in the alcohol plant. Report signed by Grimme and Campen, dated May 3, 1941.
1818-1822	Purification of residue gasel. Report dated Dec. 29, 1942. Signature illegible. (Two diagrs. attached.)
1823-1825	Saponification, Report bearing Grimme's signature and dated Aug. 2, 1940.
1826-1833	Synthesis of isopropyl and secondary butyl alcohol from olefins over the sulfuric acid ester. Report dated Tan. 29, 1947, Chemische werke. Signature illegible. (Diagrs. attached.)
1834-1964	Extensive report on the formation of alcohols from ole- fins. Report is signed by Grimme and Hugel. No date. (List of tables and figures and bibliography appear at end of report.)
1965-1980	ionthly reports of the alcohol plant - June 1941, Nov. 1941, April 1942, Nov. 1942, March 1943, Jan. 1944.
1981-1985	Esterification. Letter from Grimme to the Firma Richard Avenarius, dated Sept. 22, 1939. (One diagr. attached.)
1986-1988A	Dehydration installation. Apparatus for the separation of pentanol and higher alcohols. Letter from Gebruder Avenarius to Steinkohlenbergwerk Rheinpreussen Treibstoffwerk, dated Sept. 16, 1940, (Two diagrs. attached.)
1989-1991	Description of the procedure in a dehydration installation according to Diagr. F 3082 XIIIa. Report from Gebruder Avenarius. No author or date.
1992-1994A	Description of the procedure of an installation for the working up of a mixture of ether alcohols, water, sulfuric acid, and other compounds, according to Diagr. F. 3100 VIIe. Report from Gebruder Avenarius, dated May 25, 1938. No signature. (Diagr. F 3100 VIIe attached.)
1995-1998	Conference with Dr. Avenarius on April 1, 1942 at Treib- stoffwerk Rheinpreussen on the construction of a dehy- dration installation for amyl alcohol. Report dated

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	April 4, 1942. Signature illegible. (Diagr. of the ternary system: secondary amyl alcohol - secondary butyl alcohol - water.)
1999-2001	Level of production and method of procedure in amyl alcohol production. Report signed by Grimme, dated March 18, 1943, Treibstoffwerk.
2002-2015	The production of amyl alcohol from the pentane fraction of the stable gasoline. Report of work done by Dr. W. Grimme and Dr. W. Hausser in the research laboratory of the Treibstoffwerk during Jan.—Sept. 1943. (Tables and graphs included in report.)
2016-2029:	Experiments on the preparation of amyl alcohol. Report by Dr. Hugel, dated July 20, 1940. (Five handwritten tables attached.)
2030-2061	The preparation of higher alcohols from olefins. Report by Campen of work concluded in Oct. 1943. Supplement to report entitled: "The preparation of higher alcohols from olefins. Hexyl and heptyl alcohol," is attached. Supplement is signed by Dr. Campen and dated July 20, 1945.
2062	Title page: II. Alcohols, esters, ketones. B. Polyvalent alcohols.
<b>20</b> 63-2068	Glycerol M. Letter signed by Grimme, dated Sept. 2. 1943 to Firma Hescho.
2069-2072	Conference at "Wasag" (Werk Sythen) on April 10, 1943 concerning the addition of Glycerol M as a trinitro product for explosives. Report signed by Schmitt, dated April 13, 1943, Treibstoffwerk.
2073-2075	The production polyvalent alcohols as a substitute for glycerine. Report to the Generalbevollmachtigten für Sonderfragen der chemischen Erzeugung, dated Aug. 3, 1943. No signature.
2076 <b>-</b> 207 <del>8</del>	Glycerol plant. Report dated Sept. 4, 1943, Treibstoff-werk. No signature.

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2079-2082	Process for the production of trivalent alcohol by hydrogenation of di-methylol ketones. (German Patent Appl. St 63,701 IVd/12 o, of Dec. 13, 1943, referred to in handwritten note.) Draft of a patent with no author or date.
2083-2095	Process for the production of polyvalent alcohols. Draft of a patent dated May 9, 1944, Homberg. No author.
2096-2098	Production of polyvalent alcohols as a substitute for glycerine. Report signed by Grimme, dated July 11. 1944, Treibstoffwerk Rheinpreussen, Moers-Meerbeck.
2099-2141	The condensation of ketones, particularly methyl ethyl ketones, and formaldehyde to di-methylol methyl ethyl ketones with consideration of a subsequent hydrogenation of the keto group to an alcohol group. Report signed by Dr. W. Grimme and Dr. C. Schmitt, dated March 1944, Treibstoffwerk. (Tables included in report.)
2142-2168	The preparation of di-acetone alcohol. Report signed by Dr. W. Grimme and Dr. C. Schmitt, dated June 1944, Treibstoffwerk Rheinpreussen. (Six diagrs. included in report.
2169-2204E	The hydrogenation of keto alcohols to polyvalent alcohols. Report signed by Dr. W. Grimme and Dr. C. Schmitt, dated Sept. 1944, Treibstoffwerk Rheinpreussen. (Diagr. R 2354 of a diol plant for ketomization and condensation attached.)
2205	Title page: II. Alcohols, esters, ketones. C. Ketonization and ketones.
2206-2209	Research report on the operation of semi-technical apparatus for ketonization, carried out during Jan. 27 Feb. 15, 1941. Report signed by Dr. Wiedmann, dated May 3, 1941, Treibstoffwerk.
2210-2216	Concluding report on ketonization. Report signed by Schmitt, dated March 12, 1942, Treibstoffwerk.
2217-2219	Report on the starting up of the ketonization plant_from April 27-29, 1942, Report dated May 4, 1942, Treib-stoffwork. No signature.

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2220-2223	Dehydrogenation of iso-propyl alcohol, (Ketonization plants) Report signed by Josten, dated June 15, 1942, Treibstoffwerk, Signature illegible.
. 222 <del>4-</del> 2225	Result of the ketonization of iso-propyl alcohol with catalyst K 67 in an experimental oven. Report by Josten, dated Dec. 7, 1942, Treibstoffwerk.
2226-2228	Process for the production of di-methyl acetone and its homologs. Draft of a patent, dated Feb. 12, 1944, Treibstoffwerk. No author.
2229 <b>-</b> 2233A	Ketonization of secondary alcohols to ketones. Report signed by Josten, dated Jan. 29, 1947, Chemische Werke. (Flow diagra of a ketone plant attached.)
2233	Title page: II. Alcohols, esters, ketones D. Esters
223 <b>4–</b> 2239 <sup>:</sup>	Process for the continuous preparation of esters. (Three diagrs. attached.) No author or date.
2240 <b>-</b> 2273	Preparation of esters of iso-propyl alcohol, secondary butyl alcohol and amyl alcohol with acetic, propionic and butyric acid. (One table, seven diagrs. and fourteen graphs attached.) No author or date.
2274 <b>-</b> 2276	Preparation of secondary butyl chloride from secondary butyl alcohol and hydrogen chloride. Report signed by Dr. Campen, dated Dec. 1939.
22 <b>77-</b> 2290A	Preparation of esters. Second report. Report signed by Grimme and Campen, dated Jan. 30, 1941. (One diagr. and list of patents attached.) (First report, Nov. 17, 1939.)
2291-2330	Preparation of octyl acetate and acetic esters of sec- ondary alcohols with more than eight carbon atoms. Report dated Oct. 1941; Treibstoffwerk; Meerbeck. (Author questionable - signature of Hügel appears on title page of report and signature of Grimme appears at end of re- port.) (Four diagrs. and two graphs attached.)
2331	Title page: II. Alcohols, esters, ketones. E. Aluminum alcoholate.

2332-2334

Process for the stabilization of metal alcoholates. Draft of a patent, dated May 20, 1940. No author.

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2335-2336	Investigation of the pH value of aluminum hydroxide paste. Report signed by Josten, dated June 17, 1942, Treibstoffwerk. Signature illegible.
2337 <u>-</u> 2339	Adsorption isotherms of various aluminum oxides. Report No. 272 from Lurgi Gesellschaft für Warmetechnik m.b.H., signed by Eisenlohr, dated Into 8. 1942, Frankfurt. (One graph attached.)
2340-2343	Production of aluminum hydroxides of small bulk density. Report signed by Josten, dated Oct. 1, 1942, Treibstoff-werk. Signature illegible.
23 <del>44-</del> 2345	Aluminum hydroxide - Cx production in operation. Report dated Oct. 30, 1942, Treibstoffwerk. No signature.
2346-2347	Preparation of aluminum acetate and secondary butyl formic acid ester. Report signed by Josten, dated Oct. 4, 1943, Treibstoffwerk,
2348 <del>-</del> 2353	Aluminum alcoholate process with aluminum compounds pre- parable by it. Report signed by Wiedmann, dated Jan. 31, 1944, Treibstoffwerk.
2354-2355	Aluminum compounds. Letter from Steinkohlenbergwerk Rheinpreussen to the Reichsamt für Wirtschaftsausbau, dated Feb. 1, 1944.
2356-2361	Aluminum alcoholate process with aluminum compounds pre- parable by it. Report signed by Grimme, dated Feb. 1, 1944. (One diagr. attached.) (Similar to report on Frames 2348-2353.)
2362-2366	The accumulation of nitrogen oxide on secondary aluminum butylate. Report signed by Josten, dated March 24, 1944, Treibstoffwerk. (One handwritten table attached.)
2367-2392	The product "Rh 6" (aluminum alcoholate) prepared at Treibstoffwerk Rheinpreussen, and its use as raw material for the preparation of lacquer. Report from the Abteilung für Farben und Lacke der Textilingenieurschule at Krefeld. Report by Ilse Grossheim, dated in 1944.
2393-2393A	Table showing the conversion of aluminum secondary buty-late and magnesium-n-butylate with phthalic acid, phthalic acid anhydride and fatty acids $C_6 - C_9$ . Reaction vessel is two-liter round flask, wide-necked, with reflux condenser and stirrers. Oil bath heating, $110^{\circ}$ C/1 hr. at all charges. Table is dated Aug. 21, 1944.

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2394 <b>-</b> 2425	The production of light aluminum bydroxide or oxide as gum filler. Summary and evaluation of Investigation I of development work carried out under the guidance of Dr. H. Wiedmann during 1940-1944. Report by Dr. Josten, dated Oct. 1946.
2426-2430	Aluminum alcoholate process and aluminum compounds pre- parable by it. Report signed by Josten, dated Jan. 29, 1947, Chemische Werke.
2431	Diagram of the Rheinpreussen process for obtaining aluminum oxide from aluminum alloys. Dated Aug. 23, 1946.
2 <b>432-244</b> 3	Experiments with the liquation remains of the Erftwerk fine and rough aluminum alloy tests of Nov. 17, 1946. Part I. (Reaction of aluminum and butanol used in investigating aluminum conversion action). Report is dated Feb. 10, 1947. No signature.
2444-2473	Experiments with the liquation remains of the Erftwerk tests of Dec. 20, 1946. Part II. (Reaction of aluminum and alcohol used in investigating aluminum conversion action.) Report is dated Feb. 17, 1947 and signed by Josten with a note of credit to Haferkamp who guided the experimental work.
2474	Title page: Synthetic lubricants.
2475-2488	Capacity and size of the apparata for a 1000-ton lubricant installation at Rheinpreussen. Report dated Dec. 1, 1939.
2489-2523	Lubricants from Kogasin and tar distillation products. Part I. Kölbel Rept. No. 56, by Dr. Herbert Kölbel and Dr. Harry Welz, dated Nov. 3, 1937. (One table attached.
2524-2543	Lubricants from Kegasin and tar distillation products.  Part II: Unnumbered Kolbel Report. No date or signature.  (Seven tables included in report.)
<b>2544-</b> 2560	Lubricants from Kogasin and tar distillation products. Part III. Kolbel-Rept. No. 77, dated May 17, 1938.