

INDEX - T.O.M. REEL 299  
(Original Designation FIAT Reel L-5)  
PB L70159

Documents taken from Ruhrchemie A.G., Oberhausen, Germany

Frames

- 1-4      Veränderungen in der Zusammensetzung des Hartwachses  
(Changes in the composition of hard waxes).  
Report on investigations conducted for the purpose of  
explaining the changes in the physical properties of hard  
waxes with emphasis on the melting and the setting point.  
Report is dated Dec. 29, 1943. (One large table and two  
graphs attached.)
- 5-10     Untersuchung von Hartparaffinen aus der Eisensynthese  
(Examination of hard paraffins produced by the use of  
iron catalysts).  
Report is dated Sept. 14, 1943. (One table and one  
graph attached.)
- 11-19   Raffinierfähigkeit von Hartparaffinen (Refinability of  
hard paraffins).  
Report is signed by Velde and dated Aug. 20, 1943.
- 20-24   Correspondence exchanged between the Ruhrchemie A.G.,  
Oberhausen-Holten, and the I.G. Farbenindustrie,  
Werk Oppau, concerning the price of a shipment of soft  
paraffin.  
Correspondence is dated during 1942.
- 25-30   Bericht über die Untersuchung eines Weichwachses (Report  
on the analysis of a soft wax).  
Report is dated April 24, 1942.
- 31       Untersuchung der Verminderung der Ausbeute bei der  
Paraffin-synthese mit Eisenkatalysator (Examination of  
the decrease in yield in the paraffin synthesis with an  
iron catalyst).  
Report is dated Jan. 19, 1942.
- 32       Letter to the National Office for Industrial Fat Supplies,  
Berlin, concerning an interview for the discussion of  
questions relating to paraffin.  
Letter is dated April 28, 1942.
- 33       Letter from National Office for Industrial Fat Supplies  
setting the date for a conference on questions relating  
to paraffin.  
Letter is dated April 22, 1942.

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- 34 Zusammenstellungsrezepte von Salbengrundlagen und Fettcremen (Prescriptions for compounding ointment bases and fatty creams). Document is dated March 20, 1946.
- 35-36 A report on the possibility of producing an odor-and tasteless milking lubricant from soft paraffins. Report is signed by Lassmann, dated Dec. 9, 1945.
- 37-39 Prüfung der Verarbeitbarkeit von Wachssäuren (Testing the possibilities of processing wax acids). Report is dated May 6, 1943.
- 40-41 Versuche mit einer Knetmaschine zur Versäpfung einer Wachssäure (Experiments concerning the saponification of a wax acid by means of a kneading machine). Report is signed by Velde, dated May 5, 1943.
- 42-43 Untersuchung von Wachssäure-Produkten für die Lederbearbeitung (Examination of wax acid products for the processing of leather). Report is dated April 13, 1943.
- 44-45 An office memorandum emphasizing the difficulty of securing a hard wax used in the manufacture of detonating caps that would start melting at 80° and suggesting paraffinic substances as meeting the requirements.) Memorandum is dated April 3, 1943.
- 46-47 Die Benutzung einer Wachssäure und eines Emulgators zur Herstellung von Pausgeweben (The use of a wax acid and an emulsifier for the manufacture of tracing cloth). Report is signed by Velde, dated April 3, 1943.
- 48-49 Die Verwendung von Emulgatoren zur Herstellung von Presswasser für hydraulische Anlagen (The use of emulsifiers for the treatment of the water for hydraulic installations). Report is signed by Velde, dated April 2, 1943.
- 50-51 Die Verwendung von Wachssäure zur Herstellung von hochwertigen Schmierfetten (The utilization of a wax acid for the production of high-grade lubricating grease). Report is signed by Velde, dated April 2, 1943.
- 52 Versuche mit Emulgatoren (Experiments with emulsifiers). Report on tests with a new potassium-aluminum emulsifier. Report is signed by Velde, dated April 2, 1943.
- 53 A memorandum giving the file numbers for papers relating to wax.

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54. A letter accompanying the text of a lecture.
- 55-95. Die synthetische Herstellung von Wachssäuren und Emulgatoren und ihre Verwendung (The synthetic production of wax acids and emulsifiers and their utilization). A report on the products of the Fischer-Tropsch gasoline synthesis. Report is dated Feb. 16, 1943.
- 96-108. Paraffinsynthese am Eisenkontakt (Paraffin synthesis by an iron catalyst). Report is dated Aug. 22, 1941. Letter of transmittal preceding report is dated Sept. 10, 1941. (Four data sheets and one large graph attached.)
- 109-114. Notes relating to samples of various products to be tested. Notes are dated Sept. 6 and 9, 1941.
- 115-117. Nass-Verfahren zur Paraffin-Synthese mit Kobalt-Kontakt (Wet method of the paraffin synthesis with a cobalt catalyst). Report is dated Sept. 8, 1941.
- 118-135. Olefinesynthese durch Wassergaskreislauf über den Kobalt-Mischkontakt (Olefin synthesis by water-gas circulation over a cobalt mixture catalyst). Report is dated April 29, 1941. (Four data sheets and one graph attached.)
- 136-143. Paraffinsynthese mit Eisenkontakt (Paraffin synthesis with an iron catalyst). Report is dated March 3, 1941. Letter of transmittal preceding report is dated March 6, 1941.
144. A note announcing the shipment of various samples to be tested. Note is dated March 5, 1941.
- 145-147. Das Kreislaufverfahren bei der Benzin-Synthese (The recycle process in the gasoline synthesis). Report is dated Feb. 19, 1941. (One flow diagr. attached.)
- 148-150. Vergleichsversuche mit Synthesegas und Wassergas an Kobalt- und Eisenkontakten (Comparative tests with synthesis gas and water gas on cobalt and iron catalysts). Report is signed by Bahr and dated Feb. 29, 1940. (One table attached.)

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- 151-155 Die Mitteldrucksynthese von Paraffinen (The medium pressure synthesis of paraffins). Report is signed by Bahr and dated Sept. 7, 1939.
- 156 A memorandum from an officer of the Ruhrbenzin A.G. giving names of persons in charge during his vacation. Memorandum is signed by Bahr and dated Aug. 16, 1939.
- 157-172 Dauerversuche in einem Doppelrohrforn mit Kobaltkontakt für die Olefinsynthese (Long-duration tests in a double-tube furnace for the olefin synthesis by a cobalt catalyst). Report is dated Aug. 1943. Letter of transmittal preceding report is dated Aug. 31, 1943. (Seven data sheets and three tables attached.)
- 173-182 Versuch mit einem paraffinbildenden Eisenkontakt (Experiment with a paraffin-forming iron catalyst). Report is dated Aug. 1943. Letter of transmittal preceding report is dated Aug. 20, 1943. (Three data sheets and one table attached.)
- 183-190 Paraffinsynthese mit einem Eisenkontakt (Paraffin synthesis with an iron catalyst). Report is dated July 1943. Letter of transmittal preceding report is dated Aug. 11, 1943. (One table and one data sheet attached.)
- 191-194 Wochenbericht der Druckversuchsanlage (Weekly report from the pressure test plant). Reports on the test results of the olefin synthesis with a cobalt catalyst and of the paraffin synthesis with an iron catalyst. Reports are dated during July 1943.
- 195-200 Analyse und Polymerisation von Benzinproben der Eisen-synthese (Analysis and polymerization of gasoline samples of the iron synthesis). Report is signed by Clar and dated July 15, 1943. (Four tables attached.)
- 201-221 Wassergaskreislaufversuch über Eisenkontakt (Experiment with water-gas circulation over an iron catalyst). Report is dated July 1942. Note of transmittal preceding report is dated July 25, 1942. (Nine data sheets and two graphs attached.)

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- 222-232. Untersuchung über den Einfluss eines wechselnden  $H_2$  : CO-Verhältnisses in Synthesegas der Mitteldruck Synthese (Investigation of the influence of a varying  $H_2$  : CO ratio in the synthesis of the gas by the medium pressure synthesis). Report is dated March 1942. Letter of transmittal preceding report is dated March 20, 1942. (Three graphs, one table and short report dated March 19, 1942 follow main report.)
- 233-241. Polymerisationsanlage für olefinhaltige Gasole (Polymerization plant for fuel oils containing olefin). Report is signed by Spiske and dated July 7, 1941. (One table and one diagr. attached.) (Report is also reproduced on T.O.M. Reel 289, Frames 1553-1560.)
- 242-268. Die Herstellung von Fliegerbenzin (The production of aviation gasoline). Report is dated June 17, 1941. (A letter and flow scheme from Ruhrchemie A.G. to the Reichsluftfahrtministerium follow report. Letter is dated April 12, 1941.)
- 269-280. Technische Lieferbedingungen für inländisches Flug-Benzin (Technical conditions of delivery for domestic aviation gasoline). Report of 4 pp. dated July 1940. (Two duplications of report also appear.)
- 281-289. Herstellung von Fliegerbenzin durch katalytische Spaltung von deutschen Erdölprodukten (Production of aviation gasoline by the catalytic cracking of German petroleum products). Report is signed by Röttig and dated Dec. 11, 1944. Letter of transmittal to the Reichsluftfahrtministerium precedes report.
- 290-304. Besichtigung und Studium des Verfahrens der Fliegerbenzin- und Toluolherstellung aus ungarischem Erdölbenzin (Inspection and study of a method for the production of aviation gasoline and toluene from Hungarian petroleum gasoline). Report is signed by Kolling and dated May 26, 1944. Note of transmittal preceding report is dated June 2, 1944. (One diagr., one data sheet and two graphs attached.)

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- 305-325 Kombinierte Anlage für die Herstellung von Fliegerbenzin und Toluol (Combination plant for the production of aviation gasoline and toluene). Report is dated Jan. 29, 1943. (One flow diagr., one graph and two pages of handwritten notes attached.) (Report is also reproduced on T.O.M. Reel 289, Frames 1794-1805.)
- 326-335 Herstellung von Fliegerbenzin aus einem rumänischen Erdölprodukt (Production of aviation gasoline from a Roumanian petroleum product). Report is dated Oct. 6, 1942. (One table and one graph attached.)
- 336-337 Prüfung der Zusätze von Inhibitoren bei Polymerbenzinen (Examination of inhibitor additions to polymeric gasolines). Report is signed by Spiske and dated June 13, 1939.
- 338-358 Die Oktanzahlerhöhung bei der Raffination von Spaltbenzin (Raising of the octane number in the refining of cracked gasoline). Report is signed by Gottschall and dated May 5, 1939. (Ten tables and four graphs attached.) (Report is also reproduced on T.O.M. Reel 292, Frames 3632-3652.)
- 359-362 Untersuchung von Benzin-, Öl- und Paraffinproben aus Eisenkontaktsynthesen (Examination of gasoline, oil, and paraffin samples from syntheses with iron catalysts). Report is signed by Velde and dated March 10, 1939. (Two tables attached.)
- 363-365 Untersuchung eines Druckvergasungsbenzines (Examination of a gasoline produced by pressure gasification). Report is signed by Velde and dated Feb. 11, 1939. (Two tables attached.)
- 366-422 Die Aromatisierung von aliphatischen Kohlenwasserstoffen (The aromatization of aliphatic hydrocarbons). A report on experiments involving the aromatization of aliphatic hydrocarbons over carbon-containing and carbon-free catalysts. Report is signed by Kolling and dated Oct. 1, 1938. (Ten tables, graphs 1, 2, and 7-26 and one unnumbered graph attached.) (Report is also reproduced on T.O.M. Reel 289, Frames 1818-1857a, where ten tables and graphs 1-6 only appear.)

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- 423-451      Untersuchung der Primärprodukte aus Thorium- und Magnesium-Thoriumkontakten (Examination of primary products from thorium and magnesium-thorium catalysts).  
Report is signed by Velde and dated July 29, 1938. (Fifteen tables and three graphs attached.) (Text of report is also reproduced on T.O.M. Reel 291, Frames 3339-3345, where text of report by Velde, dated June 17, 1938 also appears.)
- 452-456      Untersuchung von Magnesium-Thorium- und reinen Thoriumkontakten (Examination of magnesium-thorium and pure thorium catalysts).  
Report is signed by Velde and dated June 17, 1938. (One table and two graphs attached.) (Text of report is also reproduced on T.O.M. Reel 291, Frames 3339-3345, where text of report by Velde, dated July 29, 1938 also appears.)
- 457-463      Apparatur zur katalytischen Spaltung von Kohlenwasserstoffen (Apparatus for the catalytic splitting of hydrocarbons).  
Report is signed by Kalippke and dated Nov. 24, 1942. (Two diagrs. attached.)
- 464-511      Aromaten- und Crackgasbildung und Kohlenstoffabscheidung bei der Aromatisierung. (The formation of aromatic substances and cracking gas and the separation of carbon in the aromatization process).  
Report is signed by Rottig and dated May 8, 1942. Note of transmittal preceding report is dated Nov. 16, 1942. (Fifteen attachments which include graphs and tables follow report.)
- 512-535      Untersuchung von Crackbenzin aus Dieselöl und Kaltpressöl (Examination of cracked gasoline from Diesel oil and cold-pressed oil).  
Report is signed by Clar and dated March 16, 1942. (Fifteen attachments including graphs and tables follow report.)
- 536-543-b      Die Kohlenoxydhydrierung unter Zusatz von Acetylen beziehungsweise Acetylen und Äthylen (The hydrogenation of carbon monoxide through the addition of acetylene or of acetylene and ethylene).  
Report is signed by Rottig and dated March 12, 1942. (Three tables attached.) (Report is also reproduced in series of reports appearing on T.O.M. Reel 289, Frames 1376-1402, but tables are lacking.)

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- 544-548      Versuche zur Herstellung von Benzin in fester Form  
(Tests for the production of gasoline in solid form).  
Report is signed by Spiske and dated Feb. 19, 1942.
- 549-553      Versuche zur Erhöhung der Oktanzahl von katalytischen  
Crackbenzinen (Experiments in raising the octane number  
of catalytically cracked gasolines).  
Patent suggestion is signed by Spiske and dated Dec. 22,  
1941. (One table and two graphs attached.)
- 554-564-b    Untersuchung von Kreislaufbenzinen auf ihre Eignung zur  
Schmierölherstellung (Examination of recycle gasolines  
as to their suitability for the production of lubri-  
cating oils).  
Report is signed by Goethal and dated Dec. 3, 1941.  
(Nine tables and one large graph attached.)
- 565-567      Versuche der Kohlenoxydhydrierung mit Zusatz von  
Acetylen (Tests concerning the hydrogenation of carbon  
monoxide through the addition of acetylene).  
Report is signed by Rottig and dated Oct. 7, 1941.  
(One attachment follows report.) (Report is also re-  
produced in series of reports appearing on T.O.M.  
Reel 289, Frames 1376-1402.)
- 568-576      Die Aromatisierung von Eisenkontakt-Kreislaufbenzin  
(The aromatization of gasoline in a recycle process over  
an iron catalyst).  
Report is signed by Rottig and dated Aug. 1, 1941. Note  
of transmittal preceding report is dated Aug. 27, 1941.  
(One large table attached.)