

SERIES G.

<u>Reel</u>	<u>Bag No.</u>	<u>Target No.</u>
126		ADDITIONAL DOCUMENT NOT ASSOCIATED WITH BAG 2075 SHOWS ALL WORK OF DR. HERMANN ZORN, LEUNA-WERKE. OPERATIONS AND ANALYSIS.
126	2075 (contd.)	<p>48 Tests on Polynuclears.</p> <p>49 Dehydrogenation of Parahydrogen benzene from Rhinish brown coal.</p> <p>50 Tests with E₁-100% Mixtures under DHD conditions.</p> <p>51 Refining of DHD Benzene under Hydrogen Pressures-Politz.</p> <p>52 Refining and dehydrogenation of catalytically cracked Russian Benzene P-100 - Coal over contact 7360</p> <p>53 Dehydrogenation of Heavy Benzene from Mild Aromatization at 600 and 300 atm.</p> <p>54 Composition of Clay and MoO₃ catalyst.</p> <p>55 Tests of DHD - Catalyst of Clay CP (K 7360) and Tonerde IU (K 7935)</p> <p>56. Iodine Number of DHD-Benzene at Politz.</p> <p>57. Tests of Dehydrogenation Catalyst in 100 cc Oven (Catalyst 7945)</p> <p>58. Burning-off of Gaskoks under Regenerative Conditions.</p> <p>59 Dehydrogenation of Russian L-Benzene.</p> <p>60 Testing of DHD-Catalysts.</p> <p>61 SO₂ - Extraction, and DHD-Process.</p> <p>62. Comparison of Contact 791L (Leuna) and 7360 Ch. 6 (Lu) at 10 and 25 atm. and various temperatures.</p> <p>63. Treatment of Dehydrogenation residues in the Aromatisation step.</p> <p>64. Refining of DHD-Benzene at 25 atm. H₂-Pressure.</p> <p>65. Cracking of Russian L-Benzene.</p> <p>66. Dehydrogenation of Heavy Benzene with Catalyst 7360.</p>

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2075

- | Target No. | Description |
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| 67. | High-Test Motor Fuel from Petroleum Benzine. |
| 68. | Dehydrogenation with catalyst 7360. |
| 69. | Toluene from 5058/6434 Benzine from bituminous coal. |
| 70. | Dehydrogenation of fraction of 5058/6434 Benzine from bituminous coal. |
| 71. | Dehydrogenation under pressure of hydrogen. |
| 72. | Dehydrogenation of 5058/6434 I-Benzine 90° from bituminous coal liquefaction. |
| 73. | Dehydrogenation with K 6718 and 7360. |
| 74. | Dehydrogenation over contact 6718. |
| 75. | Dehydrogenation of Alkathar Oil. |
| 76. | Dehydrogenation-Schlensen oven. |
| 77. | Toluene from Petroleum Heavy Naphtha. |
| 78. | Dehydrogenation with movable catalyst under hydrogen pressure. |
| 79. | Dehydrogenation of 6719/6434 heavy benzine from Bathonian shale oil. |
| 80. | Dehydrogenation of Heavy Benzine from Nienhagener Crude Oil. |
| 81. | Dehydrogenation of Scholven "Sumpf" benzine. |
| 82. | Dehydrogenation under hydrogen pressure with movable catalyst. |
| 83. | Tests with K 6100 and Iraq Naphtha. |
| 84. | Velocity in Preheaters at 600 atm. |
| 85. | Conversion to Ovens of Larger Capacity (18 m, 1.4m 20 cm, 700 atm.) |
| 86. | Basic figures for the hydrogenation of different crude materials to Diesel oil and Benzine. |
| 87. | Construction of 4-stage instead of 3-stage ovens in the coal phase of the Nordstern plant. |
| 88. | Ovens for treating bituminous coal at 700 atm. |
| 89. | Heat Exchangers for the hydrogenation plant at Stettin, Rheinland and Bubiag. |
| 90. | Substitution of 5058 by other catalysts. |
| 91. | Notes on plant at Duisburg-Meiderich. |
| 92. | Gas scrubbing at Duisburg-Meiderich. |
| 93. | " Spulgas Schwelung. |
| 94. | " Röchlingsche Eisen and Stahlwerke Conference. |

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- | Reel | Box No. | Description |
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| 126 | 2075 | 95. Pressure Refining of Rochlingsche benzine. |
| | | 96. Brabag Middle Oil. |
| | | 97. Treatment of Louisa Middle Oil. |
| | | 98. Benzination of fractions from preliminary hydrogenation of bituminous coal middle oils. |
| | | 99. Catalyst 8376 at 150-250 atm pressure of hydrogen. |
| | | 100. Discussion of Zeits at the Landorbank Berlin. |
| | | 101. Conditions in 1942 of the Paraffin Removal plant at Zeitz. |
| | | 102. Treatment of Oil-containing Residuos. |
| | | 103. Plans on New Extension of Espenhain. |
| | | 104. New Brabag Plant. |
| | | 105. Hydrogenation at Espenhain. |
| | | 106. De-waxing at Zeitz. |
| | | 107. Production Load on Lubricating Oil Plant at Lutz-Kandorf as of Mid-October, 1942. |
| | | 108. Work-up of Hirschfeld Tar. |
| | | 109. Properties of Tank Oil and Aero Engine Oil of Lutzkendorf. |
| | | 110. Explosion of some Lubricating Oil Tanks at Lutzkendorf, 20/3/41. |
| | | 111. Hydrogenation at Lutzkendorf. |
| | | 112. 600 atm. Experiments with Tar Middle Oils over Diluted Catalyst and Iron Catalyst. |
| | | 113. Prehydrogenation of Tar Middle Oils over Iron-Tungsten Catalyst at 600 atm. |
| | | 114. Benzination of Tar Middle Oil-Kogasin at 400 atm. over 6434 Iron Tungsten Catalyst. |
| | | 115. Benzination of Bituminous Coal Tar in Admixture with Kogasin II over 6434 Catalyst at 400 atm. |
| | | 116. Letter from Wintershall to I.G. on Tar Hydrogenation. |
| | | 117. Hydrogenation of Muckenberg Coal. |
| | | 118. Dimensions of Welheim Extraction Chamber. |
| | | 119. Conference with Ruhröl on a DHD Plant. |
| | | 120. Work-up of Coal Hydrogenation Solid Residues by Ruhr Oil. |
| | | 121. Conference on the Question of 300 VS. 700 atm. Operation in Ludwigshafen. |

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126	2075	122. Butane-Isobutane Production in 300 and 700 atm.
		123. Hydrogenation of Benzine-free Scholven Middle Oil over Ruhrol Catalyst K413.
		124. Summary of Conference in Welheim on 26 and 27 March 1941.
		125. Work-up of Steinkohl-Benzine from Scholven by Ruhrol Method.
		126. 300 VS. 700 atm. Operation for Upper Silesia.
		127. Conference with Dr. Winkler of Ruhrol, 4 Jan, 1941.
		128. 300 VS. 700 atm. Gasphase for O.S.2.
		129. Conversion from 300 to 700 atm. Operation, O.S.2.
		130. Production of High Lead Fuels by Catalytic Dehydrogenation.
		131. 700 atm. Gasphase Operation.
		132. Cost Comparison of 300 and 700 atm. Products from Bituminous Coal.
		133. Gasphase over Fixed Bed Catalyst at 300 and 700 atm.
		134. Notes on a visit to Welheim by I.G. Staff members.
		135. Notes on Pitch Hydrogenation at Welheim.
		136. Ethane from Blechhammer.
		137. Ausweichgas Blechhammer.
		138. Small Scale Test with OHM at Ludwigshafen.
		139. Conversion of Coal Tar to I-Benzins.
		140. Upper Silesia Hydrogenation Plants.
		141. Report of OHM operation.
		142. Coal for Hydrogenation from Radzienkan mine.
		143. Distribution of available Reaction volume in 50 and 700 atm. Ovens.
		144. New Tests on Upper Silesian Coals.
		145. Ruhrol Tests on Pitch and Pitch oils.
		146. Coals from Heinitz mine at Beuthen, Upper Silesia.
		147. Chlorine content of the Blechhammer raw materials and oils recovered therefrom.
		148. "Abschlamm" Distillation at Scholven.
		149. Hydrogenation of Upper Silesian Coals at 600 atm. to Benzine and Middle Oil.
		150. Hydrogenation of Sumpf Middle Oil from Silesian Coals.
		151. Benzine Refining.
		152. Hydrogenation at over 200 atm. Pressure.
		153. Preliminary-hydrogenation catalysts 6719, 7846 and 5058.
		154. Hydrogenation with K 7846.
		155. 40-liter Oven Tests with Catalysts 6108 and 6752.
		156. Recovery of unsaturated Crack Gases from hydrogen-rich middle oils.
		157. Cracking tests with H ₂ Si F ₆ treated α -Tonerde.
		158. Catalytic behavior of the system SiO ₂ -Tonerde-Iron.
		159. Cracking of high-boiling Alkylated Benzene (Benzol).
		160. Pressure-less cracking of paraffin hydrocarbons.
		161. Combination Process for Increasing the I-Benzine. Yield on Catalytic cracking.
		162. Catalytic Cracking of divers Middle Oils to I-Benzine.
		163. Catalytic Treatment of Caucasian Middle Oils by Cracking.
		164. Treatment of Synthetic Middle Oil (Dr. Michael) by catalytic cracking and alkylation.

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| 126 | 2075 | 165. Cracking with Synthetic Aluminium silicate. |
| | | 166. Production of 20,000 tons per month L-Benzine at Gelsenberg by catalytic cracking. |
| | | 167. Catalytic cracking of a B-Middle Oil (from Bruchsaler Gas Oil) produced by Al Cl ₃ cracking. |
| | | 168. Comparison of the cracking activity of K 6102 and K 5958 under conditions of catalytic cracking. |
| | | 169. Catalytic Cracking of Bruchsaler Gas Oil (P1203) in 50 Liter Oven. |
| | | 170. Cracking with Moving Catalyst by Dr. Peters. |
| | | 171. Al Cl ₃ - Cracking. |
| | | 172. Composition of Crack-Benzine from Hydrogen-rich Petroleum Middle-Oil as related to cracking temperature. |
| | | 173. Notes on Cracking in the 50 Liter apparatus. |
| | | 174. Catalytic Cracking of Gas Oil. |
| | | 175. Catalytic Cracking of Kogasin II with and without Butane. |
| | | 176. Catalytic Cracking of bituminous coal-tar middle-oil from Preliminary hydrogenation (Short Review). |
| | | 177. Treatment of Brown-Coal tar and fractions in DHD plants. |
| | | 178. Experience with Schamplatten. |
| | | 179. Tests in Horizontal Ovens. |
| | | 180. Hydrogenation Tests in Horizontal Ovens. |

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