

U. S. GOVERNMENT TECHNICAL OIL MISSION

INDEXES TO MICROFILMS

T.O.M. Reels 237 to 258

INDEX - MICROFILM REEL 237
(Original designation BM-25)

Classified list of translations by the Coal Hydrogenation Demonstration Plant, Louisiana, Missouri to December 31, 1946. Arranged by W. M. Sternberg. The following translations are omitted from this classified list, and have not been reproduced on this reel: T-9, T-19, T-67, T-97, T-108, T-114, T-115, T-119, T-120, T-126, T-136. Subject index, pp. 2-42.

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- T-2 Record concerning gasification and coal hydrogenation balance during the production of 22.5 or 27 ton per hour of VT 705. Scholven; Jan. 4, 1940. TOM Reel 11.
- T-3 Wash oil inspection--Scholven. TOM Reel 24, Bag 1928.
- T-4 Data on different works on the vapor phase circuit. TOM Reel 24, Bag 1928.
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- T-6 Solubilities of H₂, N₂, and CH₄ at 700 atmospheres. TOM Reel 24, Bag 1928.
- T-7 Table III (for computation of dew point curves). TOM Reel 24, Bag 1928.
- T-8 Comparison of Gelsenberg and Scholven Hydrogenation Products. Ruhr-Scholven, June 12, 1940. TOM Reel 10, Bag 2743, pp. 440-451.

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- T-10 Material balance, liquid and vapor phases. Scholven, Nov. 24, 1938. TOM Reel 11, Bag 2247-12. (Signed by Schivy).
- T-11 Podbielniak analysis. TOM Reel 11.
- T-12 The suitability of coals for hydrogenation. Leuna high pressure experiments, Oct. 16, 1942. TOM Reel 24, Bag 1928.
- T-13 Gasification data for Gladbeck Works. Scholven, Jan. 14, 1941. By Schivy.
- T-14 Specifications. I. G. Standards Book.
- T-15 Heat balance in the sump phase preheater --Lutzkendorf. High pressure experiments, Feb. 11, 1942. Leuna Works. TOM Reel 1, Bag 2168, Item 9.
- T-16 Temperature equalization in the Lutzkendorf preheater. Report of visit on Jan. 30, 1943. TOM Reel 1, Bag 2168, Item 8.
- T-17 Vapor phase product balance--stalls 17 and 54(a) for June 1944. Bottrop - Aug. 1944, TOM Reel 9, Bag 2733, pp. 193 and 194.
- T-18 Properties of N-10 material for hairpin tubes of a 700 atm. gas preheater. I. G. Farbenindustrie. 2/17/1943. TOM Reel 1, Item 7.
- T-20 Comparison of 300 and 700 atm. operation in Leuna -558, April 16 and 17, 1941. TOM Reel 126, Bag 2075, Item 121-1.
- T-21 Gas equilibria in the coal stall at 700 atm. at Scholven III. Ludwigshafen, March 7, 1939. TOM Reel 1, Bag 2168, Item 11.
- T-22 Hydrogen consumption data. Hydrogen consumption during the hydrogenation of the gasoline-free Scholven middle oil, using the Ruhröl catalyst K-413. Bottrop-Boy, 4/12/1941. TOM Reel 136, Bag 2075, Item 123.

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- T-23 Abstract of a tea report on the development of hydrogenation in Leuna, 1941. TOM Reel 129, pp. 179-203, ref. b.
- T-24 Production balances of the vapor phase. Bottrop, 1941-1942. Bottrop, Feb. 4, 1942. TOM Reel 9, Bag 2733, pp. 223-229.
- T-25 The proportions of n-butane and i-butane at 300 and 700 atm. Leuna, Apr. 15, 1941. TOM Reel 126, Bag 2075, Item 122.
- T-26 Calculation of relationship between the temperature of the material and the thickness of incrustation on paste hairpins. Gelsenkirchen-Horst, Feb. 4, 1943. TOM Reel 4, pp. 124-130, Target 30/4.08, Bag 2745.
- T-27 Gasification with 700 atm. in vapor phase. Details of discussions in Welheim, March 26 and 27, 1941. TOM Reel 126, Bag 2075, Item 124.
- T-28 Inspection of gasoline derived from Scholven soft coal liquid phase gasoline and middle oil treated in 700 atm. vapor phase process (Ruhroel method).
- T-29 Experimental work on 700 atm. vapor phase operations. Discussion with Dr. Winkler, Jan. 4, 1941. TOM Reel 126, Bag 2075, Item 127.
- T-30 Proposed modifications in the preheater construction at Scholven. Scholven, June 18, 1937. TOM Reel 10, Target 30/4.09, Bag 2743, Item 2, pp. 360-366.
- T-31 The design and properties of materials of hydrogenation of the T-52 installation at Scholven and Pöhlitz. (Condensed translation). Ludwigshafen, April 6, 1940. TOM Reel 10, Target 30/4.09, Bag 2743, pp. 414-422.
- T-32 Results of large scale investigation of heat exchange of paste with K_2SO_4 , Ludwigshafen, 1941. Ludwigshafen, Oct. 8, 1941. TOM Reel 130, ref. q, pp. 321-339.

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- T-34 Report Re: Spec. heat of coal paste and middle oil. Ludwigshafen (Rhein, April 18, 1939.) TOM Reel 11.
- T-35 Computations of the splitting stalls with catalyst 6434. Hydrogenation Works, Scholven, March 29, 1938. TOM Reel 5, Target 30/4.08, Bag 2747, Item 18.
- T-36 Installation of the splitting stall and construction steps 20 and 21, layout of splitting stall 6434, scheme N 6151-2, Nordstern. TOM Reel 5; Target 30/4.08, Bag 2747, Item 18, pp. 4-14.
- T-37 Liquid phase stall preheater. Hy-Werk (Scholven?) Feb. 28, 1942. TOM Reel 11, Bag 2247, Target 30/4.09.
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- T-39 Heat balance and temperature relationships of the liquid phase, Scholven III/266. Ludwigshafen, Apr. 7, 1939. TOM Reel 11, Target 30/4.09, Bag 2247.
- T-40 Report (No. 421) on the measurement of heat conductivity of refractory brick for the inner insulation of high pressure converters. I. G. Farbenindustrie, Ludwigshafen. TOM Reel 103, Target 30/4.03, Bag
- T-41 Preheater for coal stall--Gladbeck. Hy-Werk, March 11, 1942. TOM Reel 11, Bag 2247, Target 30/4.09, pp. 1-8, incl.

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- T-42 Dr. Frese report of April 24, 1939 in Scholven. Operating experience with the 700 atm. installation. The chlorine installation. Corrosion, addition of sodium sulphide and the H_2S partial pressure increased in the circulating gas. TOM Reel 9, Target 30/4.11, Bag 2733.
- T-43 Comparison of the circulation washing and circulation purge at 700 atm. By Dr. Frese (Ruhr81) on April 24, 1939, in Scholven. TOM Reel 9, Target 30/4.11, Bag 2733, under Item 10, "Miscellaneous Information".
- T-44 Report (No. 430) on the testing of two asbestos cements for high pressure insulation. I.G. Farbenindustrie, Ludwigshafen. Aug. 24, 1940, TOM Reel 103, Bag , Target 30/4.03, Report H26-430.
- T-45 Report on a visit to the Leuna Works hydrogenation plant from Aug. 12-Sept. 3, 1937. TOM Reel 130, pp. 639-761.
- T-46 Characteristics of hydrogenation works. Ludwigshafen, 1942. TOM Reel 129, ref. h, pp. 654-674.
- T-47 Equilibria during coal hydrogenation, April 20, 1942. TOM Reel 181, pp. 587-589.
- T-48 Heat efficiency of the soft coal hydrogenation. TOM Reel 181, pp. 507-510.
- T-49 Sulfur balance (on hydrogenation side) at the Scholven III installation (S/t gasoline and S/h at 250,000 Year-tonne), Scholven, Jan. 10, 1939. TOM Reel 11, Target 30/4.09, Bag 2247, Item 12.
- T-50 Report of the dismantling of stall 306 after the third operation period. Gelsenberg Benzin A.G., Gelsenkirchen-Horst, 9/2/43.

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- T-51 Summary of results of round table discussions on the sulfurization of middle oil. TOM Reel 181, pp. 499-501.
- T-52 Large scale fuel oil production experiments--Ludwigshafen, 1941. Aug. 4, 1943. TOM Reel 130, pp. 246-320. Table and graphs, Reel 181, pp. 215, 217, 218, and 219.
- T-53 Abstract of report on technical experiences in the operation of a converter stall in the second half of year, 1936. Report by Dipl. Ing. Amon. Jan. 19, 1937, TOM Reel 129, pp. 165-178.
- T-54 Large pilot plant at Ludwigshafen: The results found on dismantling the high pressure stall after the large scale fuel oil tests, Aug.-Oct. 1941. (See T-52). Oct. 13, 1941. TOM Reel 182, pp. 949-958. (Also Reel 130, pp. 340-348)
- T-55 Large pilot plant at Ludwigshafen: dismantling record of stall 804 (see T-54), Oct. 5, 1941. TOM Reel No. 182, pp. 959-967. (Also Reel 130 pp. 349-372).
- T-56 Report on a round table discussion of experiences in preheater operations, held at Ludwigshafen, March 22-23, 1943. Stettin-Pöhlitz, April 1, 1943 TOM Reel 76, pp. 32-36.
- T-57 An abstract of a report addressed to Hydrierwerke Pöhlitz, dated Ludwigshafen/Rhein, 17 Feb. 1943, on the strength of tube steel in 700 atmosphere preheaters. TOM Reel 76, Bags 2 and 3, Target 30/4.13, pp. 29-31 incl.
- T-58 Composition and properties of German steels. TOM Reel 87, Bag 3979, Item 124.
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- T-60 An abstract of a discussion of high pressure valves and fittings. Ludwigshafen, Dec. 10 and 11, 1942. TOM Reel 76, pp. 13-28.
- T-61 Approximate calculations of the heat transfer coefficient of a preheater. Jan. 27, 1943. TOM Reel 162, pp. 752-756.
- T-62 Abstract of a technical report on the deformation of 120 mm. sealing rings of N5 material due to inner pressure and with very tightly drawn bolts, dated Ludwigshafen, 12 July, 1936. TOM Reel 181, pp. 625-631.
- T-63 Instrumentation for the gas preheater of the extract hydrogenation stall 17 of the large scale pilot plant at Welheim. Letter to I. G. Farbenindustrie A.G., March 4, 1937, TOM Reel 5, pp. 162-165.
- T-64 Report of the technical testing laboratory at Oppau, No. 543. Investigation of finned tubes. Part 5. June 21, 1943. TOM Reel 76, pp. 48-68.
- T-65 Report on a letdown needle-valve. Stettin-Pölitz 21 Oct. 1942. TOM Reel 78, Bag 4, Target 30/4.13, pp. 13-21.
- T-66 Means for improving heat exchangers in the sump phase. Feb. 23, 1945. High Pressure Experiments Lu 1. TOM Reel 145, pp. 487-488.
- T-68 Mounting thermo-elements in electric preheaters. Ludwigshafen, Jan. 25, 1943. TOM Reel 162, frames 577-580, pp. 757-760.
- T-69 Economies of paste heat exchange of a stall. Pölitz, Oct. 14, 1941. TOM Reel 75, pp. 400-416.
- T-70 Coal preparation and residue operations at the Gelsenberg Benzin A.G. Visit of April 28, 1944. Pölitz, May 3, 1944. TOM Reel 78, pp. 69-72, Bag 4, Target 30/4.13.

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- T-71 Coal preparation and residue operations at Hydrogenation Works Scholven, A.G. (Visit of 27 April 1944). TOM Reel 78, pp. 73-75, Bag 4, Target 30/4.13.
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- T-73 Gas circulation in the 700 atm. hydrogenation stall from the standpoint of instrumentation. Scholven, Dec. 4, 1941. Communication by Eng. Schappert at the conference of Dec. 4, 1941 in Ludwigshafen. TOM Reel 9, pp. 297-303. (Also presented in Reel 164, frames 436-442).
- T-74 Preheater problems in the liquid phase with special consideration of the heat pump. A paper by Schappert presented at the colloquium, March 24, 1944. TOM Reel 167, frames 23-43.
- T-75 Rules for the construction of hydrogenation stalls. May 19, 1943. TOM Reel 162, Frame 667, pp. 865-866.
- T-76 Construction of preheaters with horizontal tubes. Lu, Sept. 27, 1944. TOM Reel 174, pp. 833-839.
- T-77 Maximum preheating in the liquid phase. Leuna 1. March 31, 1944. TOM Reel 145, pp. 489-490.
- T-78 Construction of hydrogenation stalls for explosions. Lu 558, May 3, 1943. TOM Reel 162, frames 886-893, pp. 1145-1150.
- T-79 Collected information on the A-distillation installation and operations, Gelsenkirchen-Horst, 1939-1943. Operating year 1939/1940. July 14, 1944. TOM Reel 5, pp. 198-281.
- T-80 The calculation of a high pressure heat exchanger. Ludwigshafen, Oct. 27, 1942. Short Report No. 22 by Schenker. TOM Reel 111.

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- T-86 Steels used in hydrogenation. Oct. 16, 1942. TOM Reel 163, pp. 221-226.
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- T-88 Abstract of report on the automatic regulation of the liquid and vapor-phase hydrogenation stalls at Leuna. By Dipl. Ing. Weis. Leuna Werke, Jan. 23, 1944. TOM Reel 130, pp. 846-873.
- T-89 Liquid and vapor phase operations. Discussion at Pölitz March 27-29, 1944. TOM Reel 170, frames 534-547.
- T-90 Comparison of costs of 7019, 5058, and 6434 stalls. July 26, 1940. TOM Reel 201, Item 27, frames 624-630.
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- T-92 Abstract of report on the aid of physical control of operations in the development and operation of hydrogenation works. By P. Gmelin, Oppau. (See also T-88 and T-91). TOM Reel 130, pp. 772-784.
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- T-94 The present status of investigations of attacks by hydrogen upon non-loaded test pieces, as affected by hydrogen pressure, the duration of the experiment and the hardening state of the material. Leuna, April 4, 1944. TOM Reel 130, pp. 628-635.
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- T-100 Phenols from coal hydrogenation oils. By Dr. Bemann, Ammonia Works Merseburg, TOM Reel 5, pp. 548-555.
- T-101 Abstract of report on sludge plant operation. Gelsenberg Benzin A.G., Gelsenkirchen-Horst, July 17, 1940. TOM Reel 5, pp. 182-188, Bag 2747-21, Target 30/4.08.
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- T-112 Experiences with hot catch pots. Ludwigshafen 2/2/1945. TOM Reel 9, Bag 2733, Target 30/4.11, pp. 311-314.
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- T-137 Abstract of report on high pressure vessels for hydrogenation. By A. F. Maier. (See also T-93, T-96, T-98 and T-99). Technische Mitteilungen Krupp, Dec. 1941. TOM Reel 5, pp. 594-604.
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- T-151-a Discussion of Koppers gas producers. Schwarzheide, 4/17/43. TOM Reel 43, frames 000210-214.
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- T-154 Operation costs in the synthesis gas production in Rheinpreussen. Essen, July 16, 1942. TOM Reel 43, frames 000260-000267.
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- T-156 Data for comparing hydrogenation with low-temperature carbonization (L.T.C.) of bituminous coal. By Dr. Fahr, Lu, May 24, 1943. TOM Reel 162, pp. 898-900.
- T-157 Comparison of coal and iron requirements between bituminous coal hydrogenation and low temperature carbonization (L.T.C.) followed by hydrogenation. Berlin, April 21, 1943. TOM Reel 69, pp. 53-56. TOM Reel 164, pp. 1122-26.
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- T-163 To the theory of the liquid phase. Leuna, 1. Jan. 31, 1944. TOM Reel 181, frames 06611-06614.
- T-164 Starting up and shutting down stalls. TOM Reel 130, pp. 112-134.
- T-165 Report on dismantling of stall #5, March 29, 1941. Leuna, April 29, 1941. TOM Reel 130, pp. 230-245, ref. 0.
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- T-169 Nitrided plungers and rods. Ludwigshafen, July 4, 1941. TOM Reel 181, frame 06703-4.
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- T-172 Results of tests of N-10--Leuna, 1943. TOM Reel 130, pp. 612-622.
- T-173 Bituminous coal stalls for 700 atm. Lu, Nov. 3, 1937. TOM Reel 126, pp. 442-46.
- T-174 Installation of quadruple instead of triple coal stalls at Nordstern. Lu, Nov. 3, 1937. TOM Reel 126, pp. 438-441.
- T-175 Basic data for the hydrogenation of various raw materials to Diesel oil and gasoline in a bituminous coal hydrogenation plant. Lu, July 14, 1938. TOM Reel 126, pp. 434-37.
- T-176 Contributing data on rectification, particularly of mineral oils. Oct. 28. 1942. TOM Reel 163, pp. 252-254.
- T-177 Abstract of report on filtration of coal hydrogenation letdown. Leuna, July 21, 1938. TOM Reel 130, pp. 485-507.
- T-178 Accidents and damages in hydro-works. Ludwigshafen, 1942. TOM Reel 130, pp. 636-38.
- T-179 I. G. construction steels (abstract). TOM Reel 130, pp. 559-587.
- T-180 Catalysts in the production of synthetic fuels from coal. By S. B. Tatarskii, K. K. Papok, and E. G. Semenido. From Neftanoie Khozyaistvo, vol. 24, No. 2, 1946, pp. 52-55. (Second article. Results of study of materials of a Russian Commission for the study of synthetic fuels in Germany, July, 1945).

TRANSL.
NO.

- T-181 Dr. Winkler's report on aromatization at 700 atm. Ruhröl G.m.b.H., Welheim in Leuna. Jan. 4, 1941. TOM Reel 126, frames 00100-001004.
- T-182 Abstract of bid on plant producing 180,000 t/ann. aviation gasoline and 30,000 t/ann. liquid gases from brown coal by catalytic pressure hydrogenation, for Russia. I. G. Ludwigshafen, Dec. 1939. TOM Reel 130, pp. 508-558.
- T-183 Chlorine in the vapor phase injection feed, its removal and general orientation in the operation details at high pressure in Scholven. Merseberg, Feb. 22, 1939. TOM Reel 130, ref. t, pp. 386-402.
- T-184 Sulfidic vapor phase catalysts, especially tungsten sulfide in industrial coal hydrogenation. Lecture by M. Pier, Ludwigshafen, 1943. TOM Reel 130, pp. 403-434.
- T-185 Operating experience with catalyst 7846-W-250 (8376) and a comparison with 5058 and a combination of the two catalysts. Stettin-Pölitz, Nov. 10, 1943. TOM Reel 130, ref. w, pp. 460-483.
- T-186 Methane splitting in the K plant at Heydebreck, Oppau. March 9, 1942. TOM Reel 65. Frames 104-114.
- T-187 Accounting in hydrogenation (abridged translation). Leuna; Sept. 24, 1943. TOM Reel 129, ref. a-3, pp. 57-68.
- T-188 Method of production of ammonia synthesis gas. O.Z. 14396. Ludwigshafen, Sept. 10, 1943. TOM Reel 65, frames 119-127.
- T-189 Observations on catalysts for cracking and hydrocarbon conversion. Lu, Nov. 22, 1940. TOM Reel 181, pp. 711-716.

T.O.M. Reel 237

TRANSL.
NO.

- T-190 Development of vapor phase hydrogenation and of catalysts immune to poison (abstract). Lu, Oct. 16, 1942, TOM Reel 181, pp. 353-359.
- T-191 Discussions on March 26, 1943 in Lemna. The N-10 material. TOM Reel 129, ref. a-2.
- T-192 Device for low temperature carbonization of carbonaceous substances. German Patent No. 699,707. Dec. 21, 1935. Issued to I.G. Farbenindustrie by Dr. Matthias Pier, Dr. Albert Pross, Dipl. Ing. Karl Götze, Dipl. Ing. Helmut V. Deimling.
- T-193 Pressure hydrogenation of coal or similar solid carbonaceous substances. German Patent No. 656,364, May 19, 1933, by Dr. M. Pier and Dr. Bruno Engel and German Patent No. 675,957, Aug. 4, 1935, by Dr. M. Pier, Dr. A. Pross, Dr. Karl Winnacker, and Dr. Wilhelm Gieg. Both issued to I. G. Farbenindustrie A.G.
- T-194 Process for separating oils from mixtures with solid substances. German Patent No. 550,157, Oct. 26, 1927, by Dr. M. Pier, Dr. B. Engel and Dr. Rudolph Wietzel and German Patent No. 630,965, April 30, 1933, by Dr. M. Pier and Dr. B. Engel. Both issued to I. G. Farbenindustrie A.G.
- T-195 Directions for accounting in hydrogenation plants. July 14, 1943. TOM Reel 129, ref. a-4, frames 69-79.
- T-196 Hydrogenation of Rhenish brown coal. TOM Reel 129, ref. i, pp. 675, 769.
- T-197 Experiments to determine the sensitivity to nitrogen of catalysts. By Mohr and Simon. June 1938. TOM Reel 173, pp. 880-884.
- T-198 Arrangement of gasoline converters and heat exchangers for various catalysts. By Dipl. Ing. Schappert. Sept. 27, 1937. TOM Reel 180, pp. 833-835.

T.O.M. Reels 237

TRANSL.
NO.

- T-199 The influence of temperature on the results of pre-hydrogenation (saturation) with concentrated and diluted catalysts. The preparation of such catalysts. Lu, May 24, 1943. TOM Reel 205, frames 733-737.
- T-200 Operating balance of Koppers powdered coal generator. TOM Reel 188, frames 20951-20960.
- T-201 Typical monthly operating reports. Gelsenberg, 1940 and 1941. TOM Reel 5, pp. 307 and 315.