

INDEX - MICROFILM - REEL 123  
(Orig. Ident. Reel 8-G)

SERIES G.

<u>REEL NO.</u>	<u>BAG</u>	<u>TARGET</u>
123	4714	30/Opportunity. Portlandzementwerke, Dotternhausen, Wurt
		1. Drawing of Plant Layout
		2. " " " Plan View.
		3. " " Sectional Views of Otto Ovens for L-T. Distillation of Oil Shale.
		4. Drawing; General Layout of Works.
		5. Drawing; Section through waste-heat Duct of Oil-Shale L.T.-Distillation Plant.
		6. Drawing; Sections through Oven-plant at Dotternhausen.
		7. Reports on Products and Organization of Oil- Shale Plant at Dotternhausen.
		8. Cement Production Methods.
		9. Oil-Shale L.T. Distillation Plant; Methods & Products.
		10. Oil-Shale distillation in an Aluminum Bath.
		11. Analyses of Production & Products at Dotternhausen.
123	4714	30/Opportunity. Kohle - Ol-Union von Busse Kommanditgesellschaft at Schorzingen, Wurt.
		12. Ground-plan of Works.
		13. Drawing; section of experimental distillation- oven.
		14. Flow-sheet of Subterranean L.T. Distillation Plant for Oil-Shale. "
		15. Oil-Shale Deposits at Schorzingen in Section and Oil-Content of different strata.
		16. Memorandum on Distillation of Oil-Shale Deposits in situ.
123	4714	30/Opportunity. Deutsche Oilschiefer Forchulgs G.m.b.H. Schomberg, Wurt.
		17. Drawing; Piping Connections for Gaseous Products and Condensation of Liquid Products.
		18. Large plan for Meiler distillation of Oil-Shale.
		19. Drawing; Large-scale and detail of Meiler Process.
		20. Drawing of Lurgi Hubofen for Oil-Shale distillation.
		21. Drawing; Experimental Hubofen.
		22. " General Assembly of Hubofen.
		23. " Gas recirculation to Hubofen of Lurgi.
		25. " Hubofen Product Recovery.
		26. Discussion Report of Meiler Operations at Schomberg.

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<u>REEL NO.</u>	<u>BAG</u>	<u>TARGET</u>
123	4714	30/Opportunity. Lias Olaschieferforschungs-Frommern-Balingen-Wurt. 27. Drawing: grate support for LT Oven for Oil-Shale by Lurgi. 28. " " Cast-Iron Grate for L.T. Oven. 29. " " Oven Shell and water-seal for Lurgi Oven. 30. 3 drawings: Details of Lurgi Oven 31. Layout of Oil-Shale Plant at Frommern by Lurgi. 32. Ground-Plan Assembly of Frommern Plant. 33. Report of L.T. Distillation of Oil Shale by Process of Dr. A. Schweitzer.
123	(None)	Comparative Results on Iron Fischer-Tropsch Catalysts at Schwarzheide-Ruhland.
123	2892-Item 51. (Originally Bag 2926-Item 43.)	30/Opportunity- CIOS Liquid Fuels and Lubricants Team. 22/6 - CIOS Rubber Team.

CHEMISCHE WERKE HOLS

MARL. KR. HECKLINGHAUSEN.

Production of Ethylene Including Recovery of Ethylene  
from Coke-Oven Gas, etc.

1. Carl Stiltz Process for Removing  $C_2H_4$  from  
Coke-Oven Gas by Scrubbing same with Benzene.
2. I.G. Farben's Report on Ethylene Removal from Coke-  
Oven Gas by Active Charcoal.
3. I.G. Report on Conference with Lurgi re:-  
Ethylene from Coke-Oven Gas with A-Kohle.
4. Comparison of Leverkusen's Process and Hoechst's  
Cold High Pressure Process for Recovery of  
 $C_2H_4$  from Coke-Oven Gas.
5. Memorandum to Commission K on Recovery of  
Ethylene from Coke-Oven Gas.
6. Further data and Correspondence on Ethylene  
Recovery from Coke-Oven Gas.
7. Hydrogenation of Acetylene to give Ethylene.
8. Regenerative plant for  $C_2H_4$  Recovery from  
Coke-Oven Gas.

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PETROLEUM DOCUMENTS FROM HEDDON HOUSE LIBRARY  
OF THE BRITISH FOREIGN OFFICE AND MINISTRY OF  
ECONOMIC WARFARE.

1. F.D. 2404/45. S-Book of the OKW (Army General Staff) Sections re oils, Buna rubber and Toluene.
2. F.D. 3173/45 Summaries and Map re German Petroleum Production.
3. F.D. 3688/45 Chart of Fuels and Lubricants Produced in Germany in 1943 and 1944.
4. F.D. 3277/45. File re Ruhrchemie underground synthetic Oil producing plant "Dache V" which was under construction at Willingen Correspondence, layout sketch and plans.

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DEMAG-DUISBERG.

Compressor Drawings, Specifications, and Photographs.

1. Standard 325 Atm. Compressor (Einheitsmaschine)
  - (a). Drawing No. VM- 2302 plan view.
  - (b). Drawing No. VM- 2301 cross section of low pressure side.
  - (c). Drawing No. VM- 2111 cross section of high pressure side.
  - (d). Specifications.
  - (e). Two photographs of installed compressors.
2. Single Stage After- Compressor (300- 725Atm.)
  - (a). Drawing No. VM- 2826 cross section.
  - (b). Specifications.
  - (c). Photograph of installed compressors.
3. Six Stage 700 Atm. Compressor.
  - (a). Drawing No. VM - 850001 cross sections.
  - (b). Drawing No. VM - 850002 cross section and plan view.
  - (c). Specifications.
  - (d). Description pamphlet "Cross-Kompressoren" containing pictures of this and other machines.

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DOCUMENTS OBTAINED FROM PROF. JOSIEF GOUBEAU  
CHEMICAL INSTITUTE, UNIVERSITY OF GOTTINGEN.

1. Analysis of Hydrocarbons by Means of Raman Spectra.
2. The Raman Effect and Constitution of Organic Molecules.
3. The Raman Spectra of Mono-Alkyl Benzenes and Mono-Alkyl Cyclohexanes.
4. The Raman Spectra of Glycolols, their Dependence on  $pH$  and their Analytical Possibilities.
5. The Raman Spectra of Some Thiocyanate Compounds and the structure of the Group.
6. The Raman Spectra of Hydrazines.

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DOCUMENTS AND STATEMENTS OBTAINED FROM  
WALTER OSTWALD AND ASSOCIATES,  
HEPPENHEIM, GERMANY.

1. Memorandum, W. F. Faragher to M. R. Mandlebaum.
2. Questionnaire on Fuels and Lubricants.
3. Letter, Ostwald to Faragher, 31 Aug. 1945.
4. Answers to Questionnaire, Item 2.
5. Bibliography of Recent Automotive Literature.

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DOCUMENTS AND STATEMENTS OBTAINED FROM  
WALTHER OSTWALD AND ASSOCIATES,  
HEPPENHEIM, GERMANY. (Contd.)

6. Work of K. W. Ostwald on Efficiency of Autobahns and Operation of Automobiles on Low Grade Fuels.
7. Discussion of Internal Combustion Engine with Special reference to Hot Bulb Motors by Walther Ostwald.
8. Short Statement on the Work of Fritz Ostwald.
9. Short Statement on German Oil Shales.
10. Record of meeting of Faragher, Horne, and W. Ostwald.
11. Research Work of Dr. Hans Heymann, Darmstadt.
12. Research Program of the Ostwalds.
13. Short Statement on Mercedes-Benz Passenger Car with Bosch Fuel Pump.
14. English Summary of the Work of the Ostwalds.
15. Motors, Men, Beasts, and Plants, by W. Ostwald.
16. Article in Automobil-Revue, 27 Dec. 1944.
17. Apparatus for protection of Tanks against Land Mines, by W. Ostwald.
18. Theory of Street Spacing, by P. Brauer, Munich.
19. Julius Robert Mayer and His Mission.
20. Combustion in Motors, by W. Ostwald, Reprint from Petroleum Zeitschrift, 9 June 1937.
21. Road Condition Recorder, by K. W. Ostwald.
22. The Bulldog Motor (Hot Bulb).

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123Bag No.Target No.  
30/4.05.REPORT ON VISIT TO BRABAG I PLANT AT BOHLEN.

Edited by  
Major J. P. Ellis, Ministry of Fuel and Power.

1. Table of contents.
2. Object of Visit.
3. Summary.
4. Personnel Interviewed.
5. History of Plant.
6. Sources of Raw Material.
7. Production Figures.
8. Exports.
9. Quality of Fuels - 1943.
10. Description of Plant.
11. Description of Operation.
12. Water Gas Production (R. J. Morley and H. Badger)
  - (a). Oxygen.
  - (b). Winkler Generators.
  - (c). H<sub>2</sub>S. Removal.
  - (d). CO Conversion.
  - (e). Compression.
  - (f). CO<sub>2</sub> Removal.
  - (g). CO Removal.
13. Preparation of Tar for Hydrogenation.
14. Description and Operation of the Liquid Phase Hydrogenation System.
15. Description and Operation of the Vapour Phase stalls.
16. Gas circulation Plant and Gas Washing Plant.
17. Injection Plant.
18. Liquid Phase Distillation Plant.
19. Vapour Phase Distillation.
20. Gas Distribution and Recovery System.
21. Treatment of H<sub>2</sub>S.
22. Treatment of Water.
23. Iso-Butane Plant.

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REPORT ON VISIT TO BRABAG I PLANT AT BOHLEN. (Contd.)Edited by: Major J. F. Ellis. Ministry of Fuel and Power.24. AT-244 Installation.25. D.H.B. Plant.26. Extraction of Tar and H.O.L.D. Fugal Sludge.27. Labour Strength.28. Running Costs.29. Construction Costs.30. Construction of Pipe Bridges.

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30/1.05.

LUFTFAHRFORSCHUNGSANSTALT HERMANN GOERING- BRAUNSCHWEIG.Report on Fuel and Lubricants Teams Visit May 6th/11th 1944Reported by: Lt. Col. H. C. Fett. Ministry of Fuel and Power.1. Object of Visit.2. Summary.3. Inspection of Engine Institute Laboratories.4. Interrogation of Professor E. Schmidt.5. Photographs.6. Appendix A. Map of Institute.7. Appendix B. Detailed Interrogation of Professor O. Lutz.

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2925  
(Formerly  
1814)TIIC ACCESSION LIST- Page 29. Items 12, 13, & 14.12. Distillation of Ethyl Benzene- Schkopau.13. Distillation of Styrene- Schkopau.14. Styrene Flow Sheet.TIIC ACCESSION LIST- Page 32. Items 37 & 40.37. Distillation of Butadiene- Schkopau.40. Development of Buto Distillation- Schkopau.

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Bag No:

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30/OpportunityDOCUMENTS EVACUATED FROM THE RESIDENCE OF DR. SCHAUB OF  
RUHRCHEMIE.

<u>CIOS</u> <u>No</u>	<u>REPT</u> <u>No</u>	<u>TITLE</u>	<u>AUTHOR(S)</u>	<u>DATE</u>
<u>(A) RUHR-BENZIN REPORTS.</u>				
1	-	Ruhrbenzin results a propos the Co-operative tests in the H. W. A. Test Engine (Diesel).	Schaub	9.11.38.
2	-	Report on Tests to clarify discrepancies in Octane No. Determination of Ruhrbenzin fuels.	Schaub	11.11.38.
3	-	Supplement to the Report: Position of the tests with C <sub>3</sub> , C <sub>4</sub> (liquefied Cases).	?	6.12.38.
4	-	Interim report on the tests to date with the Test Engine from the F.K.F. Stuttgart.	Schaub	10.2.39.
5	-	Progress report No 2. Lubricating oil tests on the Opel 1.3 ltr. Engine.	Schaub	8.5.39.
6	-	Report on test with mixtures of liquefied Gas (Gasol) and Gasoline.	Schaub	4.12.39.
7	-	Progress report No. 3. The importance of Engine conditions in the testing of Lubricating Oils.	Schaub	19.1.40.
8	PI01	An Apparatus for measuring the vapour lock of Gasoline.	Velde Schaub	20.6.40.
9	PI02	Supercharged tests with the NSU 501 .OSL Engine.	Schaub	5.9.40.
10	PI03	Comparison of SS oil with other Diesel Oils with respect to Nozzle Coking.	Schaub	5.10.40.
11	PI04	Tests with fuels of different density.	Schaub	9.12.40.
12	PI05	The Development of an Engine Test Method for Aero Engine Oils in the NSU 501 OSL Engine.	Schaub	14.12.40.
13	PI06	The testing of some Aviation Oils in the NSU Aviation Oil Test Engine.	Schaub	20.12.40.
14	PI07	Testing synthetic Aviation Oils of Low Pole Height.	Schaub	24.12.40.
15	PI08	SECRET. Report on Engine Testing of Ruhrchemie Synthetic Aero Engine Oils.	Schaub	10.1.41.

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(A) RUHR - BENZIN REPORTS (Contd.)

<u>CIOS</u> <u>No</u>	<u>REPT</u> <u>No</u>	<u>TITLE</u>	<u>AUTHOR(S)</u>	<u>DATE.</u>
16		Evaluation of Fuels for Vapour Lock troubles in an engine.	Schaub & Velde	19.2.41.
17	P109	Report on the Engine testing of the synthetic Aviation Oil K1860 (Japanol)	Schaub	15.5.41
18	P110	The Development of an Engine Test for Lubricating Oils in relation to Piston seizure.	Schaub	25.5.41.
19	P111	SECRET. Report on Engine Tests of Synthetic Aviation Oil K1880	Schaub	7.7.41.
20	P112	Testing various Wehrmacht Standard Oils for Piston seizure in the Triumph Engine.	Schaub	1.8.41.
21	P113	Comparison of Supercharge Tests in the NSU Engine of Ruhrbenzin and the BMW 132 Engine of the Techs Prüfstand, Oppan	Schaub	6.9.41.
22	-	Extract from a report on Tests with Gear Oils by the Rheinmetall-Borsig A.G.	Schaub	30.10.41.
23	P114	Engine Tests of the Aviation Oil K1929.	Schaub	7.1.42.
24	P116	Influence of Viscosity and various additives on the behaviour of Synthetic Oils in Engine Tests in relation to Piston seizure.	Schaub	12.1.42.
25	P115	Development of a Test for Engine Oils relative to Piston Seizure.	Schaub	15.1.42.
26	P117	Testing 4 Engine Oils for Piston Seizure.	Schaub	29.1.42.
27	P118	Ease of ignition of R.C.H. Cetane.	Schaub	30.3.42.
28	P119	SECRET. Oil Testing in a NSU Engine.	Schaub	25.4.42.
29	P120	Dilution of Engine Oils for Winter Operation.	Schaub	22.5.42.

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(B) RUBROCHEMICAL REPORTS

<u>CIOS No.</u>	<u>REPT No.</u>	<u>TITLE</u>	<u>AUTHOR(S)</u>	<u>DATE.</u>
30		Report on lubrication ability investigations.	Lediney	3.8.38.
31		Humboldt-Daimler Engine Tests	?	20.1.39.
32		On the question of the Determination of Asphalt contents in light Lub. Oils	?	30.4.42.
33	P121	Working out a method for testing Engine Oils for Ring sticking, aging and wear.	Schaub	9.6.42.
34	P122	The behaviour of different Commercial Aviation and Automotive Engine Oils in relation to Piston seizure.	Schaub	13.6.42.
35	P123	Dilution of Engine Oils for Winter Operation.	"	
36	P124	Aviation Oil Blend KI951 from BSH Bright stock and low viscosity mineral component from Nerag.	"	10.9.42.
37	P125	Evaluation of the HWA Test Oil, 3370 (ME96 - Ester Oil from IG)	"	11.9.42.
38	-	Preliminary Report: Engine Oil Test No 3370 (ME96 - Ester Oil).	Schaub	1.7.42.
39	-	Analytical investigation of an Ester oil from I.G. Farben.	Rottig	28.8.42.
40	P125a	Testing Engine Oil 3370	Schaub	8.4.43.
41	P126	Influence of viscosity on Oil consumption.	Schaub	19.9.42.
42	P127	On the lubrication effect of thin Engine Oils (Winter Oils)	Schaub	21.9.42.
43	P128	Aviation Oil 3344 from the Main Plant.	Schaub	6.10.42.
44	P129	Aviation Oil 1979 from the Main Laboratory.	Schaub	4.1.43.
45	P130	The Effect of Addition of Oppanol on the behaviour of Engine Oil.	Schaub	27.2.43
46	P131	The influence of Oppanol addition on wear.	Schaub	11.3.43.
47	P132	Aviation Oil Blend KI951/2 made from inhibited RCH Bright Stock and Nerag Oil.	Schaub	8.4.43.
48	P133	Investigation of Engine Oil 3698.	Schaub	12.4.43.

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384000000000(B) RUBRICHEMIE REPORTS (Contd.)

<u>CIOS</u> <u>IS No</u>	<u>REF</u> <u>No</u>	<u>TITLE:</u>	<u>AUTHOR(S)</u>	<u>DATE</u>
49	P134	Investigation of Engine Oil from Herag (H.I.) of engine.	Schaub.	12.4.43.
50	P135	Investigation of a Herag engine Wahrsch. Winter Oil (20% Solvents : H2) 10E.	Schaub.	4.5.43.
51	P136	Investigation of 3.I.G. Farben Winter Oils, 1016, 1018 and 1019. Selected test results and	Schaub.	5.5.43.
52	P137	Starting I.C. Engines at low tempera- tures.	Schaub.	20.6.43.
53	P138	Investigation of the Ester Oil E1 from the RCI Research Laboratory.	Schaub.	6.7.43.
54	P139	Testing Engine Oil 3903 in relation to Piston Seizure.	Schaub.	17.9.43.
55	P140	Knock measurement of Synthesed oil Benzene dependent on the Ignition System.	Schaub.	1.11.43.
56	P141	On the pumping behaviour of lubricants at low temperatures.	Schaub.	29.11.43.
57	P143	Cranking Test with Rumanian Oil	Schaub.	29.12.43.
58	PI44	Testing an Aero Engine Lubricant SS1060 for Piston Seizure.	Schaub.	7.3.44.
59	P145	The foaming of Lubricating Oils.	Schaub.	17.3.44.
60	P146	Testing the Aviation Oil sample K2051 of Molay.	Schaub.	17.6.44.
61	P147	Starting I.C. Engines at low temperatures 2. Interim Report.	Schaub.	27.6.44.
62	P148	Testing Gear Oils for heat stability.	Schaub.	29.8.44.
63	P149	Preliminary tests with the 4 Ball Apparatus.	Becker & Schaub.	26.9.44.
64	P150	Cold Testing Gear Oils in the Switch Gear Ak7-200.	Schaub.	29.9.44.
65	P151	The Evaluation of Lubricants accord- ing to Wear in an Engine.	Schaub.	15.11.44.
66	P152	Ageing behaviour of the Aviation Blend K2025 (with RCH bright stock, not inhibited).	Schaub.	19.10.44.

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(B) HUBBARD'S RESEARCH (Cont.)

<u>CIOS</u> <u>No</u>	<u>No</u>	<u>TITLE</u>	<u>AUTHOR(S)</u>	<u>DATE</u>
67	P153	Comparison of Synthetic Residue and Distillate Oil of similar Viscosity for Lubrication of the Piston of Bright Steel Component.	Schaub	21.10.44.
68	P154	Testing various E.P. conditions to determine which oil, combined with lubricating oil, is best for testing lubrication ability.	Schaub	2.11.44.
69	P155	Tests with Tests of Different Boiling Ranges	Schaub	16.11.44.
70	P156	Report on the Lubrication Test	Schaub	14.2.45.
71	P157	Report on the Lubrication Correlation Tests	Schaub	14.2.45.

End of Reel 123.