

INDEX - MICROFILM REEL 182
(Original designation Navy 5868-7)

FRAME NOS.
6986-7705

Part 27.

SYNTHETIC LUBES

1. Specification for working oil and motor oil for the Army.
June 1944.
2. Specification for aircraft motor lubricating oil S3 and U2.
3. R-oil plant flow sheet. 11/23/40.
4. Production of aircraft motor oil by mixed polymerization -
Leuna, Mar. 27, 1943.
5. Solidification point of oil and oil mixtures-DVL investiga-
tion #786.
6. Reaction; K-xanthogenate / phosphortrichloride; phosphor-
pentachloride; phosphoroxychloride. R. Rüttinger, Leuna
Works. Aug. 29, 1944. 12 pgs.
7. Ester oil III - expansion plan. Drawing #M4447-8. 9/19/42.
8. Flow sheet of lubricating oil plant. Drawing #AS1263. Lurgi.
9. Scheme for the distillation plant. Drawing #D.O. 8770. Lurgi.
10. Viscosity index tables in centistokes.
11. Concerning the efficiency of Jet Impulse. 6/29/43.
12. Flow sheet of SS-oil production.
13. 100 hour test on lubricating material SS1593 in Motor Juno 205D.
6/19/42. (2 copies).
14. Aircraft pressure oil Do2000. 11/9/44. Production of
Do2000 and use.
15. Minutes on the survey of motors 211, F154, J 112. After
100 hours test with lubricating material "SS90225F". 9/2/41.
16. Testing of lubricating material SS902, F25S in Motor Juno
205D. 2/19/42.
17. 100 hour test on the cold starting oils SS902/25F in
Motor 211F. Sept. 18/1941.
18. Report on 100 hour aircraft test on the cold starting
oils SS902 15 Fr. in Motor as10C/3. 8/12/41.
19. Parts of a book on lubricating oil testing.
20. Conference of the "Lubricating Technical" work group.
7/18/44. Paper delivered.
21. Notice: Conference on 8 and 9 of July, 1941, concerning
setting up a plan for lubricating oil production. 3 pgs.
22. Improvement of storage qualities through lubrication
additions. R. Glocker. 10 pages.
23. Development and experiment on cold withstanding torpedo
oils. July 31, 1940. 33 pgs.
24. Report of conference on lubricating material for torpedo
machine. Mar. 6, 1940. 3 pgs.
25. Short report #372 on an investigation of the corrosion
preventative H^o 1/136 Na- W. Lauer. 8/20/43. I.G.Farben.
8 pgs.

26. Technical specifications for the corrosion preventative - "Schutzöl 39". Reich Air Ministry TL 147-900, May, 1939. 4 pgs.
27. Investigation on the boiling and ageing behavior of lubricating oils - O. Wedmaier and L. Nenninger. Yearbook 1941 German Air Institute. II 460-469.
28. Influence of motor lubricating oil on the cold starting of aviation motors - Baier. 24 pgs. June 29, 1942.
29. Molecular-physical problems of lubrication. K. L. Wolfe. 8/25/42. 4 pgs.
30. Report concerning the organization of the lubricating material commission on 12/15/42 in Leuna. 14 pgs.
31. Concerning the polymerization of chemically pure unsaturated hydrocarbons to lubrication oils. A. W. Schmidt and V. Schoeller. Reprint from Brennstoff-Chemie. Vol. # 20, pg. 235-246; Vol. 21, pgs. 247-258, 1942.
32. Concerning the influence on hardness to scratch-measurements on metals because of absorbed lubricating material - Dr. Bochmann and L. Fidecko. 8/28/1944.
33. Tests of SS 902 oil in Bramo 323P & HM 504.
34. Lubrication as interfacial phenomenon - Kluge. Report of the physical-technical Reich institute. 12 pgs.
35. Notice: Concerning the conference on SS 900 oil plants at Leuna. July 25, 1941. 5 pgs.
36. Lubricating oil - synthesis from olefins with addition of various quantities of poly-styrol, Christmann. July 26, 1938. 4 pages.
37. Lubricating oil synthesis from olefins with addition of various quantities of polystyrol. July 19, 1938.
38. Synthetic aviation lubricating oil from (alpha) olefins C6-C18. H. Suida and J. Haura. April 10, 1942. 25 pgs.
39. Production of hot vapor cylinder oil and paraffin from chloroparaffin. 10/26/42.
40. Notice: Lubricating oil investigation on T.T.H. lubricating oil - Becker. Leuna Works, Nov. 19, 1937.
41. Paraffination of TTH-strip offs. Quantity and quality of the resultant lubricating oils. Its Refinement and its behavior in use - Höhn. 15 pages.
42. High vacuum distillation of synthetic lubricating oils and numeral oil raffinate - E. H. Kadmer. Aug. 1944. 21 pages.
43. Product - Ester - Lubricating Oil. Nov. 5, 1942. 1 page.
44. File notice - production of synthetic lubricating oil Sl, Leuna. Jan. 22, 1942. 2 pages and flow sheet.
45. Report - production of aviation oil through mixed polymerization. Leuna, Mar. 29, 1943. 9 pages.

Part 27 - Cont'd.

46. Lubricating oil from kogosin and tar distillation products, Part VIII - H. Kolbel and A. Mensel. 3/21/40; Part XI over catalyst. 10 pages and 14 pages.
47. Lubricating ability - research program - 11/4/41. A list of compound to be investigated. 2 pages.
48. High vacuum distillation of motor oil of the Army for purpose of establishing constitution - E. Kadmer. Oct. 1944. 7 pages and graphs.
49. Lubricating oil from TTH-paraffin by means of thermal splitting and polymerization of the liquid split products. Leuna - Sept. 6, 1940. 5 pages.
50. Lubricating compound Mar. 10, 1944. A patent application - O.F. 14651. I. G. Farben.
51. Lubricating compound - Feb. 23, 1944. A patent application O. F. 14614. I. G. Farben (2 pages);
52. Lubricating compound - Feb. 24, 1944. A patent application O. F. 14620. 2 pages. I. G. Farben (2 copies).
53. Lubricating oil plant at Lutzkendorf. March 23, 1943. (3 pages). Concerns aviation oil and the paraffination situation.
54. The relation between lubrication and wear by the lubrication slide method - E. Heidebrock. May 1944. 21 pages and drawings.
55. File notice - concerning the principle of lubricating oil mixed polymerization. Leuna, Jan. 12, 1942. (2 pages.)
56. File notice of a conference held 11/20/42 in Ludwigshafen on the production of aviation oil. 4 pages.
57. Report on polymerization - Flow sheets given (1st page missing).
58. Lubrication plan for the "Steinkohlenbergwerk Rheinpreussen." Contains specifications of greases and oils. Jan. 1939.
59. The 1st session of the Lubrication Commission at Leuna. 12/15/42. 18 pages.
60. Specification for aviation motor lubricating oils - TL147-650. Dec. 1944. Ministry for air (2 copies).
61. Synthetic special oil - Leuna. Feb. 5, 1942. The physical properties of two special oils.
62. Sulfur-ester and lubricating oil inhibitor - Leuna, Nov. 5, 1942. Preparation of the material.
63. A contribution towards the elucidation of the constitution of mineral lubricating oils - E. H. Kadmer. Report #18 of the German Institute for Fuels. 38 pages.
64. Lubricating oil for TL-equipment - Sacks. Nov. 16, 1944. 5 pgs. text, 5 pages tables and curves.
65. Investigation of pumping qualities of motor oils - Report #572 - Halder. I.G.Farben, July 20, 1944. 8 pgs. plus drwgs. and graphs.
66. The chemical technologie of lubricating oil - Dr. Zom. March, 1938. I. G. Farben. 109 pages.

Part 28.

1. ANIC - An illustrated story of the Italian hydrogenation plants at Bari and Livorne. 2 copies.
2. Offer on an installation with a years production of 180,000 tons of aviation gasoline and 30,000 tons of liquid gas from brown coal through catalytic pressure hydrogenation for the Union of Socialist Soviet Republic, Dec. 1939, Number 340. I. G. Farben AK. A complete estimate - with flow sheets, material requirements and cost figures. 3 pages.
3. Same as above except from hard coal - Number 338, and Nov. 1939.
4. Preliminary report on the building of high pressure chamber according to the Fuel Oil Investigation - Aug.-Oct. 1941. 29 pages of text, drawing, photographs and flow sheets. Oct. 13, 1941.
5. Decline of the many layer body. Report on a conference held in Berlin. Sept. 2, 1938. 13 pages.
6. Establishing the manufacturing process of the necessary high pressure hollow chambers. A report of a conference held in Berlin 8/18/38. 5 pages.
7. Investigation of many bed chamber and one bed chamber, Measurements and comparison of the heat transfer ability Dec. 29, 1938. 6 pages.
8. Preliminary report on the many bed chamber, May 25, 1938. 23 pages of text, drawing, graphs and photographs.
9. Report on the repairs to Chamber 5 - Bohlen report 20/44. Braunkohle-Benzin AK. June 15, 1944. 5 pages.
10. Report on the repairs to Chamber 5 - Bohlen report #36/43. 10/18/43.
11. Report on the repairs to Chamber 5 - Dentloff report #31/43. 9/15/43.
12. Report on the repairs to Chamber 5 - Dentloff report #25/43. July 20, 1943.
13. Report on the repairs to Chamber 5 - Dentloff report #12/43. March 17, 1943.
14. Report on the repairs to Chamber 5 - Bohlen report #4/44. Jan. 31, 1944.
15. Rebuilding of the gasoline Chamber #5. Dec. 5, 1941.
16. From the Braunkohle-Benzin AK, Magdeburg works - as a remembrance - a collection of early and pioneer articles on hydrogenation. Photographs and flow sheets included.