

CIOS BAG NO. 3979

Target No. 30/4.02

I.G. FARBENINDUSTRIE, A.G., LEUNA

3979 - 30/4.02

ITEM
NO.

- Real*
A. HYDROGENATION
8. 1. Report - Instrument Controls, liquid & Gas phase hydrogenation.
 2. Note on damages to HP reactor vessels 10 Feb. 45
 3. Report - Hydrogen penetration of steels
 4. Note on savings of chromium for high pressure hydrogenation vessels.
 5. Summary of Building Materials.
 9. 6. I. G. Standards - 325 Atm.

DRAWINGS ON HYDROGENATION & HIGH PRESSURE EQUIPMENT

Dwg. No.	Subject
7. M-5934-1	Abstich Generator
8. M-11688-2	" "
9. M-4461d-1	DHD Converter
10. N-10379c-2	Modified Cone Joint
11. M-9708-2	Extended Vessel
12. M-5496b-1	Maulwurf Pump
13. M-4892-1	Silver Lined Converter
14. M-4427a-1	1000-atm. vessel
15. M-5145-2	Modified Converter Cover
16. M-6126-1	1200 mm Converter
17. M-8561-4	Lined Double-Bend
18. M-9850-4	Gas-H.O.L.D. Exchanger
B. ENGINE RATING OF FUELS & LUBRICANTS	
19.	Comparison of Laboratory and Road Tests. Knock-Test Research.
20.	Miscellaneous Engine Test Data.
21.	Standard Reference Curves.
22.	Comparison of Knock-Tests, Different Engines
23.	Knock Test Data Outside of Leuna
24.	Knock-Boundary Curves - Oppau Method.
25.	Diesel Engine Test Curves.
26.	Outside Reports, etc.
26a	Knock-Test Curves, 1934-1943
C. SYNTHETIC LUBRICATING OIL	
27.	Report-Lube Oil from Ethylene, 22 May 1937
DWG. No.	
28.	M-3052-2 Flow Sheet - Entire Plant
29.	M-4412-2 Plot Plan - all Equipment
30.	M-3977-2 Ethane Cracking Furnace
10.31.	M-1640-1 Plot Plan & Elevations, Ethane Cracking Equipment.
32.	M-2095-16 Flow Sheet - Purification of Cracked Gases, before Linde Plant.
32a	M-5104-4 Reaction vessel for Acetylene Hydrogenation
33	M3720-2 Benzol Washer
34	M-3779-16 Flow Sheet, Alkacid Plant.
35.	M-1748-16 Flow Sheet - Linde Plant
36.	M-2620a-4 " " Polymerization Plant, Jan. 1937
37.	M-2424-1 " " " & Distillation, Nov. 1938
38.	M-2500-1 " " " " " Dec. 1938
39.	M-2614a-1 Plan & Elevations, Poly. Equipment, Feb. 1939
40.	M-3546-1 Flow Sheet Polymerization & Distillation, Aug. 1940
41.	M-3648-1 Plan & Elevations, Poly. Equipment, Sept. 1940. (changes not completed in May 1945)

- 42. M-4581-1 Ethylene Polymerization Reactor
- 43. M-1573-8 Stuffing Box - Polymerization Autoclave
- 44. M-2623-4 Flow Sheet-Equipment following reactors
- 45. M-5509-2 Layout of Scraper Centrifuges
- 46. M-7574-2 Lube Oil Treating
- 47. M-6404a-2 Bubble Cap Column-Oil Fractionation
- 48. M-3035-2 Flow-Sheet-Proposed Vacuum Fraction (1936)
- 49. M-5289-2 Water & Steam Summary - 4 Reactors
- 50. M-3034-2 Flow Sheet - Atmospheric Distillation (Prop)
- 51. M-2694a-8 Flow Sheet - Distillation Equipment
- 52. M-3090-4 Electrical Flow Sheet

D. BUTANE DEHYDROGENATION

- 53. Report - Carbonization of Sicromal 8 and FF30 tubes with Isobutane and n-Butane.
- 54. Report - Butane (Propane) Dehydrogenation in Tubular Reactors over fixed bed catalysts.
- 55. M-3364-1 Flow Sheet
- 56. M-3075a-1 Assembly of Tube Bundle Dehydro. Furnace
- 57. M-9077a-2 Tube Bundle " "
- 58. M-3074b-1 " " Mid-Section " "
- 59. M-6776b-2 Details of Catalyst Outlet
- 60. M-4091c-1 Experimental Catalyst Outlet
- 61. M-8222-4 Details of Dwg. M-4091c-1
- 62. M-2742-8 Driver for Catalyst Outlet Assembly
- 63. M-8320a-2 Details of Catalyst Outlet
- 64. M-4023-1 " " " "
- 65. M-4000-1 Housing for Catalyst Outlet
- 66. M-4047a-1 Details of Catalyst Outlet.
- 67. M-8354-2 Assembly of Catalyst Outlet Arrangement
- 68. M-3078h-1 Catalyst Outlet Assembly (cast iron)
- 69. M-4620-8 Catalyst Outlet Assembly
- 70. M-9883a-2 Pneumatic Valve for Catalyst Outlet
- 71. M-4794-16 Sand-Pocket for Tube Bundle
- 72. M-4295-16 Jet Details
- 73. M-2959-1 Catalyst Receiver - Dehydro Furnace
- 74. M-5070-1 Regeneration Furnace
- 75. M-5181-1 " "
- 76. M-5071-1 " "

E. OXO AND SYNOL SYNTHESSES

- 77. Report - Research on Estonian shale oil . . . as raw material for OXO-syntheses and for chemicals manufacture.
- 78. Report - Experiences with the semi-commercial synol research plant Me 458.
- 79. M-3458-16 Flow diagram - OXO Plant (Research)
- 80. M-3636b-1 Detail Flow Sheet OXO Plant
- 81. M-9519-2 Synthesis reactor, OXO Plant
- 82. M-7430a-2 " " " "
- 83. M-3836-1 " " " "
- 84. M-10,007b-2 " " " "
- 85. M-5377-1 " " " "
- 86. M-7366-2 " " " "
- 87. M-4025-16 Flow Diagram Synol Pl't (10,000 t/yr)
- 88. M-3889-1 Detail Flow Sheet " "
- 89. M-4375d-1 Scheme for Synthesis from Liquid Product. Synol Plant.
- 90. M-4342-1 Distillation Scheme, Synol Plant.
- 91. M-4728-1 " " " "
- 92. M-4799a-1 Scheme for Working Up Synol Product.
- 93. M-9270e-2 Tube Insert for Cooling Synol Reactor.

F. LIQUEFIED PETROLEUM GAS

- 94. Report - LPG for Breaking-In Airplane Engines (1939)
- 95. " " " " " " (1939)
- 96. Report - Changing of Diesel Truck Engines to LPG (1939)
- 97. Misc. data on LPG, especially vaporizers.
- 98. Dwg. TV 1034b, New Type Gasifier

G. MISCELLANEOUS REPORTS & NOTES

- 99. Isomerization of n-Butane with $AlCl_3$
- 100. Aviation Gasoline thru Catalytic Cracking
- 101. Catalytic Cracking of Pure Hydrocarbons.
- 102. Quantitative determination of low-boiling Phenols in Phenol-oils by fractionation.
- 103. Concentration of Phenolic water with Phenol
- 104. Extraction of a Rumanian Gas Oil with Phenol
- 105. Investigation of an Austrian Crude Oil.
- 106. Report on Dewaxing Research at Ludwigshafen (1941)
- 107. Concentration of low-boiling olefins from olefin-paraffin mixtures by silver nitrate washing
- 108. Investigation & Comparison of Bottoms products from DHD and HF Processes
- 109. Lab. Research on preparation of adipic acid and alkyl adipates.
- 110. Report on KW-Synthesis Research, Leuna, First half of 1939.
- 111. Appendix to Item 110.
- 112. Instrumentation. Sketches
- 113. Data on heating of catalyst spheres (4 curves)
- 114. Investigation of high pressure vessels damaged by bomb fragments
- 115. Resistance of Different Materials to CO
- 116. Substitute materials for Copper in Methanol and Isobutanol Plants
24 Nov. 43 " " " " " " 27 Nov. 43
- 117. " " " " " " " " " " " "
- 118. Corrosion from Alkaid Liquor
- 119. Report of the Class-Kallen Commission on Steel Analyses
- 120. Note on Steels for Low Temperatures
- 121. Summary of Steels for High Pressure Piping
- 122. Note on Compressor Lubrication
- 123. Handbook on Explosion-Proof Electrical Equipment
- 124. Table of Steel Analyses