INDEX - MICROFILM REFL 244
(Original designation EM-31)

The following are translations of material appearing on TOM microfilm reels 101 to 217, and miscellaneous.

TOM REEL NO.		DOC. and/or ITEM NO.
101	Report on the middle-pressure synthesis with iron catalysts. June 1940. pp. 1-48. (Translated by Bureau of Mines).	Doc. PG-21559-NID
101	Iron catalysts for middle-pressure synthesis. By Dr. H. Pichler. Sept. 9, 1940. pp. 49-67. (Translated by Bureau of Mines).	Doc. PG-21574-NID
101	Recent investigations on iron catelysts. pp. 68-158. (Translated by Burcau of Mines).	Doc. PG-21581-NID
101	Research on behavior of iron catalysts when operated with H2-rich synthesis gas. pp. 159-168. (Translated by Bureau of Mines).	Doc. PG-21577-NID
101	Process for the production of hydrocarbons (patent application). pp. 6-10. (Translated by Bureau of Mines).	Doc. PG-21576-NID
101	The middle-pressure synthesis with iron catalysts. Sept. 9, 1939. pp. 11-24. (Translated by Bureau of Mines).	Doc. PG-21578-NID
lui	Investigation of the reaction water obtained from middle-pressure synthesis experiments with iron catalysts and hydrogenrich starting gas. F. Weinrotter, April 30, 1941. pp. 24-26. (Translated by Bureau of Mines).	Doc. PG-21579-NID

-		
TOM REEL.		DOC. and/or ITEM NO.
134	-Hydrocarbon synthesis with iron catalysts, Leuna Works. April 5, 1940. pp. 27-40. (Translated by Bureau of Mines).	Item IB-23 (first half)
86	Experiences with the semi-commercial Synol plant ME458, Report No. 172/ 44A, Leuna Works. Oct. 10, 1944. pp. 41-60. (Translated by Bureau of Mines). Bag 3979.	Item 78
	above translations constitute "Translation on the Development of Iron Catalysts for ynthesis". Parts I and II.)	ns of German the Fischer-
101	"Iron Catalyst in Medium Pressure Synthesis". By H. Pichler, with an introduction by F. Fischer, dated 10 Sept. 1940. pp. 9-19 of the original, comprising "a dis- cussion of the theory of activation of the catalyst" have been trans- lated. (Translated by Standard Oil Development Co.)	Item 21574
101	Report on research in the field of medium pressure synthesis over iron catalysts. Dated June 1940. The subject matter on pp. 30-35 of the original, relating to "theory of formation of iron catalysts" has been translated. (Translated by Standard Oil Development Co.)	Item 21559
103	A Stroboscope for Nozzle Research. A 1-page summary by P.A.W.	Item H16
103	Measurement of cetane numbers down to zero. A 1-page summary.	Item H19
103	Ignition delay measurement with the FKFS ignition-delay instrument. A 1-page summary.	
	v T-base sammarh.	Item H22

TOM REEL NO.	•. ,	DOC. and/or ITEM NO.
103	Relationship between cetane numbers determined in the I.G. test Diesel and in the HWA engine. A 1-page summary.	Item H25
104	De-leading of B4. Experiments made for the RIM. A 1-page report by PAW on I.G. papers.	item M7
104	Regulation tests for solid fuels used in automobile gas generators. A l-page report on I.G. papers.	Item Nl
104	Coal and laboratory-special tests. A 1-page report on Union Kraft- stoff papers.	Item N13
104	Vapor pressures of amines of ali- phatic hydrocarbons. A 1-page report on I.G. curve sheet.	Item Q2
104	Anglo-American captured fuels. Evaluation of experimental data. (1940 to June 1943). A 1-page report on I.G. reports	Item Q4
104	Specifications for Diescl fuels for supply to the German navy. Same as M12 item.	Item Q20
104	Technical delivery requirements for the inland aviation spirit V.T. 200. (earlier description-Leuna II, Benzine). A 1-page Report on Air Ministry papers.	Item Q371.
104	Physical data for iron and nickel carbonyls. A 1-page report on papers from Wilke files.	Item R5
104	The Egersdorfer heavy oil equipment A 1-page report on Wilke paper.	Item R6

# 016 D		
TOM REEL.		DOC. and/or ITEM NO.
105	Instructions for the investigation of fuels with Jentzsch's tester for ignition equality. A summary by PAW.	Item Q36
105	Analytical report on a crude benzine sample. A very brief summary.	Item Q31
105	Acceptance instructions for inspectors appointed by industry. A very brief summary.	Item Q23
105	Alkoxy - Alkylchlorides etc. A very brief report on I.G. papers.	Item M24
105	Knocking behavior of an American aviation spirit. A very brief report on Oppau paper.	Item X4
105	Tests on two cream coloured lacquers for protection against tetra ethyl lead. A brief report on I.G. letters.	Item X10
105	Report on the examination of the composition and lubricating behavior of an imerican zero-engine oil. A brief report on KWI papers.	Item X11
105	Comparison of a sample of captured American aero engine oil with a German aero engine oil. Report on Stuttgart Technical High School papers.	Item Xl3
105	Engine tests using an additive giving protection against corrosion (Ho 1/136). Report on E'Stelle Rechlin papers.	Item X15

TOM REEL NO.		DOC. and/or ITEM NO.
106	The compressibility of hydrocarbons. A brief report by PAW on I.G. papers.	Îtem B28
106	Investigation of two distillation fuel oils as to suitability for engine use. A report on I.G. papers.	Item 832
106	Investigation in the Somua-Hesselman engine of a brown-coal-ter-fuel oil obtained from the coal improvement and tar distillation company. A report on I.G. papers.	Item B39
106	The measurement of cetane numbers above 100. A 1-page summary.	Item 840
106	Investigation in the Schua-Hosselman engine of a brown-coal-tar-fuel oil obtained from the Hefrag Brown Coal and Tar Distillation Works Hessen-Frankfort Co. A summary on I.G. papers.	Item 842
106	Investigation of two fuel oils D635 and D636 in the Somua-Hesselman engine. A brief notation on I.G. papers.	Ítem B47
106	Vapor pressure instruments on ethers and hydrocarbons at low temperatures. A report on I.G. papers.	Item B53
106	Checking the rate of flow of three gas meters by means of an adjustable diaphragm. A very brief notation on I.G. papers.	Item B68
106	The effect of cetane number on the starting behavior of Diesel fuels. A brief summary.	Item B70

TOM REEL NO.		DOC. and/or ITEM NO.
106	Glowing compounds for the prolonged warming of apparatus. A brief abstract of I.G. papers.	Ttem B71
106	Investigation of the resistivity of "cottoned" and "sack" fuel containers to water and organic solvents. A brief abstract of I.G. papers.	Item B72
106	Test of a protective coating against acid for use with accumulator warmers. A brief abstract of I.G. papers.	Item B85
106	An experimental arrangement for temperature measurement. A brief abstract of I.G. papers.	Item B91
106	The suitability of various chemical compounds for causing engine trouble. A brief abstract of I.G. papers.	Item B97
106	Investigations with different fuel additives with the purpose of improving the odor of the exhaust gases. Summary of I.G. report.	Item I23
106	Investigation of diacetylene as an additive for Diesel engine fuels (coal tar oil and gas oil). Summary of I.G. report.	Item I21
106	Investigation on the improvement of Diesel oils by increasing their ignition quality. Abstract of I.G. report:	Ttem BlOl
106	Investigation on diethylperoxide as an additive for gas oil and coal-tar-oil. A summary of I.G. report.	Item I20

	· · · · · · · · · · · · · · · · · · ·	
TOM REEL NO.		DOC. and/or ITEM NO.
106	Tests with Jentzsch's tester for ig- nition quality. Summary of I.G. report.	Item 134
106	Further experiments with a motor vehicle Diesel engine, type Daimler-Benz OM. 67, converted	
	to run on methanol. Summary of I.G. report.	Item 150
106	The conversion of a Diesel motor vehicle engine, type Daimler-Benz OM. 67, to run on methanol. Summary of I.G. report.	Item I50A
	Summary of 1.6. report.	TOM TOW
106	The behavior of the heaviest oil as fuel for the Diesel engine. Summary of I.G. report.	Item I59
106	Experiments with protectives against cold corrosion caused by tetra- ethyl lead. Summary of I.G. report.	Item 160
106	The conversion of a Daimler-Benz Diesel engine, type OM. 59 to run on methanol when fitted with a carburetor. Summary of I.G. report.	Item 162
106	Experiments with nitrated Pott extract as fuel for the coal dust Diesel engine. Summary of I.G. report.	Item 171
106	Tests on a Hesselman engine. Examination of different fuels and injection nozzles. Summary of	
	I.G. report.	Item 172

TOM REEL NO.		DOC. and/or ITEM NO.
106	Investigation on the use and knock behavior of different fuels in the Hesselman engine with suction stroke and compression stroke injection as well as with carburetor operation. Summary of I.G. report.	Item 173
106	The thermal decomposition of lead tetra ethyl in leaded spirit. Abstract of I.G. report.	Item 175
106	Tests on coal dust Diesel engines. Summary of I.G. report.	Item 176
106	Tests on a Diesel engine with viscous and solid fuels. Summary of I.G. report.	Item 178
106	The behavior of water dissolved in Otto fuels at low temperature. Abstract of I.G. report.	Item ISLA
106	Tests on a coal dust Diesel engine. Summary of I.G. report.	Item 183
106	Experiments with time-saving apparatus for cathode ray tubes. Abstract of Oppau report.	Item 186
106	Radiation measurements in the Hesselman engine by means of photo cells and cathode ray oscillograph. Summary of I.G. report.	Item 191
106	Pressure diagrams in the Diesel engine with gas oil and two hydrogenated products. Summary of I.G. report.	Item 188

TOM REEL NO.		OOC. and/or ITEM NO.
106	(nocking behavior of coal tar oil with diacetylene additive afterstorage. Summary of I.G. report	Item I24
107	Investigation of the combustion pro- cess in the Hesselman engine by means of the I.G. piezo-quartz cathode ray indicator. Summary by PAW of I.G. report.	Itėm 194
107	Investigation on an insertion in the prechamber developed for Diesel fuels of low cetane number. Summary of I.G. report.	Item 195
107	Tests with RCH-Diesel. oil. Summary of I.G. report.	Item 198
107	Experiments on the changing of the resistance to flow of viscous liquids. Abstract of Oppau report.	Item 199
107	Tests on four fuel mixtures. Summary of I.G. report.	Item I100
107	Tests on three TTH Diesel fuels. Summary of I.G. report.	Item IlOl
107	Correlation tests on I.G. test Diesels. Summary of I.G. report.	Item IlO2
107	The examination of benzines rich in olefines, with special reference to their aromatic content.	
	Summary of I.G. report.	Item Il04
107	The significance of the cetane number. (The combustion process in relation to the cetane number). Summary of I.G. report.	Item Il06

TOM REEL.		DOC. and/or ITEM NO.
107	The influence of injection quantity, coolant temperature, speed and temperature and pressure of the air intake on the combustion cycle in the Diesel engine. Summary of I.G. report.	Item 1107
107	Tests on a six cylinder Hesselman engine in operation on the road. Summary of I.G. report.	Item Illl
107	Knock behavior of light fuels of low octane number in an engine having external ignition and compression stroke injection (Hesselman engine). Summary of I.G. report.	Item Ill3
107	The "time marker" as an addition instrument for the I.G. test Diesel. Summary of I.G. report.	Item Ill4
107	Tests on Leunz-benzene as a Diesel fuel. Summary of I.G. report.	Item Ill6
107	The viscosity of various benzenes at low temperatures. Abstract of Oppau report.	Item Il26
107	Examination of aviation fuel MAI on its knocking behavior in the 801-single cylinder engine (compression ratio 7:2). Summary of I.G. report.	Item 1134
107	Report on the inaugural sitting of the research group for "measur- ing instruments". Abstracts of two reports written by Bermelin.	Item Il35 (i) and (ii)

TOM REEL NO.		DOC. and/or ITEM NO.
107	Special meeting for the standariza- tion of engine testing of Diesel fuels by the D.V.M. Abstract of I.G. report.	Item Il36
108	The influence of decreasing setting point on Diesel oils. Summary by PAW of Oppau report.	Item C85
108	Power-plant maintenance. Summary of Luftfahrt Ministeriums report.	Item 13
108	The separation of water by fuel filters in aircraft and tank installations. Summary of Luftfahrt Ministeriums report.	Item 1.16
108	The ignition of combustible gas- air or vapor-air mixtures by sparks. Summary of Leuna Works report.	Item Ul
108	Evaluation of captured oils and fuels. Abstract of Luftwaffe report.	Item U2
108	Reports on work carried out at the Technical Research Station, Oppau. Summary of I.G. report.	Item US
108	Research reports of the motor fuel division of the National Research Council. Summary of Munich Technical High School report.	Item U9
108	The correlation of fuel research and supply problems. Summary of Philippovich report.	Item V10
108	Research on the question of the mode of passage of fuel through an injection nozzle. Summary of Werner Oschatz report.	Item Ull

TOM REEL		DOC. and/or
NO.		ITEM NO.
134	Ludwigshafen. Patent Division. New application: Process for the separation of alcohols from non-aqueous liquids. Reel pp. 1047-1059. (Translated by Texas Co.)	Section II, Document 22.
134	The separation of aliphatic alcohols from accompanying hydrocarbons by extraction with aqueous methanol. Reel pp. 1060-1070. (Translated by Texas Co.)	Section II, Document 23.
134	Merseburg Review No. 2. The con- stitution of the Oxo alcohols. (Translated by the Texas Co.)	Section VII, Item 3
134	The examination of olefinic carbon monoxide hydrogenation products and their possible application to the Oxo synthesis, with special regard to the field of detergents. (Translated by the Texas Co.)	Section VII, Item 5.
135	U.S. Naval Tech. Mission in Europe, Tech. Rept. 116-45. The manu- facture and application of lubri- cants in Germany. (Translated by California Research Corp.) (Attachment XII missing).	Attachments I-XVIII
135	U.S. Naval Tech. Mission in Europe, Tech. Rept. 116-45. The manu- facture and application of lubri- cants in Germany. (Translated by Shell Oil Co., Inc.) (Attach- ments VII, XIII, XIV, not present due to illegibility).	Attachments I-XIV
138	Collection of reports made by the Research Laboratory. Report No. 304: The HF-Process and the Moos- bierbaum plant. (Translated by Sinclair Refining Co.)	Document XV
	3 · · · ,	

TOM REEL NO.		FRAMES and/or ITEM NO.
151	Description of the present produc- tion method of palatinol AH. (Translated by Standard Oil Co. of Ind.)	Frames 978-980
175	Report concerning bunker-fuels and miscibility of tests of bunker-fuels. (Translated by Navy Dept.)	Frames 70002-60
175	Diesel fuels and their mutual mixtures. (Translated by Navy Dept.)	Frames 70061-175
175	Determination of the pumpability of fuel oils. (Translated by Navy Dept.)	Frames 70262-266 Item F
175	Self ignition qualities and chemical constitution. (Translated by Navy Dept.)	Frames 70353-379
175	Relationship between self-ignition and motor combustion processes. (Translated by Navy Dept.)	Frames 70380-386 Item H, Part b
175	Specifications for German naval fuel. (Translated by Navy Dept.)	Frames_70566-568 Item K
175	Operating instructions for the Linde Frankel Oxygen Unit. (Translated by M. W. Kellogg Co.)	tem L
210	Knock Investigation with Aromatic Mixtures. (Translated by Standard Oil Co. of Ind.) (Item marked "2" about 1/2 way through reel).	
213	Sludge filtration experiments with different solvents. (Translated by Standard Oil Co. of Ind.)	Frames 6-11

TOM REEL.		FRAMES and/or
213	Sludge filtration experiments with different aldehydes. (Translated by Standard Oil Co. of Ind.)	Frames 12-15
217	Code names of the Luftfairtfor- schingsanstalt, Mermann Goring, Braunsdweig. (Translated by Standard Oil Co. of Ind.)	Frame 113
No reel no.	Quarterly Report of I.G. Analytical Laboratories; Fourth Quarter of 1943. (Translated by Standard Oil Dev. Co.)	
	HASCHE REEL NO. 1	

HASCHE REEL NO. 1 (Original Designation C-1 in the Chemicals Group of Office of Technical Services)

	FRAMES
New ester acrylic acid esters. (Trans- lated by Standard Oil Co. of Ind.)	11-14
New vinyl ether II. (Translated by Standard Oil Co. of Ind.)	15-17.
New use possibilities for anthracene. (Translated by Standard Oil Co. of Ind.)	221-230
The influencing of isomer formation in the dichlorination of metaxylol. (Translated by Standard Oil Co. of	: 177
Ind.)	338-339
Catalytic oxidation with atmospheric oxygen in liquid phase. I. Oxidation of ethylbenzol to acetophenone. (Translated by Standard Oil Co. of Ind.)	غ. د : <u></u> .
position of the of the	477-493

T.O.M. Reel 244 (Hasche Reel No. 1 contd.)

	FRAMES
Catalytic oxidation with atmospheric oxygen in liquid phase. II. Oxidation of tolucl and chlorotoluenes. (Translated by Standard Oil Co. of Ind.)	500-506
Catalytic oxidation in liquid phase with at mospheric oxygen. III. Oxidation of polymethylbenzol. (Translated by Standard Oil Co. of Ind.)	507-513
HASCHE REFL NO. 2: (Original Designation C36 in the Chemic Group of Office of Technical Services	
Investigation of the esterification products of triethanolamine with higher molecular	FRALES
fatty acids. (Translated by Standard Oile Co. of Ind.)	151
Chlorobromination of aliphatic hydrocarbons. (Translated by Standard Oil Co. of Ind.)	183
Preparation of alkyl naphthols. (Translated by Standard Oil Co. of Ind.)	401
Technical use of the aldehyde synthesis according to Gattermann. (Translated by Standard Oil Co. of Ind.)	404
Preparation of benzyl naphthalene. (Translated by Standard Oil Co. of Ind.)	445
Hydrogenation products of the alkyl phenols. (Translated by Standard Oil Co. of Ind.)	473-474
Progress in the manufacture of "Palatinol HS". (Translated by Standard Oil Co. of Ind.)	522- 523
Work regarding "The Portions of Intrasolvan HS esterifiable with difficulty". (Translated by Standard Oil Co. of Ind.)	524-526

T.O.M. Reel 244 (Hasche Reel No. 2 contd.)

	FRAMES
Polymerization of tetrahydrofurone. (Trans- lated by Standard Oil Co. of Ind.)	547-570
The technical preparation of tri-isopropyl- benzol. (Translated by Standard Oil Co. of Ind.)	589-595