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TOM REEL 248

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THIS REEL INCLUDES

TRANSLATIONS OF THE

DOCUMENTS F.D. 2866/46 TO F.D. 2873/46

INCLUSIVE ON THE LIST OF TRANSLATIONS

WHICH FOLLOWS.

LIST OF TRANSLATIONS

T.O.M. 248 and 249

MINISTRY OF FUEL AND POWER

TECHNICAL MISSION TO GERMANY

PERFORMANCE AND UTILIZATION GROUP.

LIST OF FULL TRANSLATIONS PREPARED.

(See full Documents List dated 1.8.47.)

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TOM REEL 248

LIST OF TRANSLATIONS PREPARED

<u>Document Number</u>	<u>Cis Reference Number</u>	<u>Title</u>
F.D. 2860/46 It. 1 ✓	1893/A.1.	Use of the Ring Process in the BMW 132 N.
" " " It. 2 ✓	1893/A.2.	Wear experiments on injection nozzles and compression piston with fuel R-300 and gas oil.
" " " It. 5 ✓	1893/A.5.	Testing the lubricating capacity of oils in three different apparatus.
" " " It. 7 ✓	1893/A.9.	Influence of temperature when operating aero-engines by the Ring Process
" " " It. 8 ✓	1893/A.10	Revised Test Method for the Investigation of Aviation Fuels (Oppau Method)
" " " It. 9 ✓	1893/A.11	Investigation into the stability of aero-engine lubricants at low temperatures
" " " It. 11 ✓	1893/A.13	Testing the polyglycol ethers of multivalent alcohols as lubricants
" " " It. 12 ✓	1893/A.14	Minimum and optimum fuel quantity for the Ring Process on the Jumo Cylinder 211A.
" " " It. 17 ✓	1893/A.21	Comparative Tests with Aero-Engine Lubricants Mixtures A-F.
" " " It. 18 ✓	1893/A.22	Testing of the lubricating quality of R 200 and R 300
" " " It. 19 ✓	1393/A.23	Note on testing the knock-behaviour of fuels in a small test engine.
" " " It. 27 ✓	1893/A.32	Investigation of Lubricants in the I.G. -Kälteschrank.
" " " It. 31 ✓	1893/A.35	Tests with the Ring Process at Different Compression Ratios
" " " It. 32 ✓	1893/A.36	Technical tests on lubricating oils.
" " " It. 35 ✓	1893/A.38	The Ring Process
" " " It. 36 ✓	1893/A.39	Peak Pressures in the Ring Process

<u>Document Number,</u>	<u>Cios Reference</u> <u>Number</u>	<u>Title</u>
F.D. 2866/46 It. 37 ✓	1893/A.40.	On an electrical instrument for the acoustical or optical determination of the incidence of knock
F.D. 2866/46 It. 38. ✓	1893/A. 41	The Use of the I.C. Test Engine for Lubricant Testing
F.D. 2866/46 It. 29. ✓	1893/A.43.	Experiences with Ring Sticking Tests on Lubricants
F.D. 2866/46 It. 44. ✓	1893/A.50.	Apparatus for measuring the lubricating properties with limiting friction
F.D. 2866/46 It. 45. ✓	1893/A.51.	The behaviour of starting fuels in Diesel Engines when injected into the induction pipe
F.D. 2866/46 It. 49. ✓	1893/A.53.	Testing lubricants by measuring wear.
F.D. 2866/46 It. 62 ✓	1893/A.70.	Lubricant Testing in Small-scale Apparatus.
F.D. 2866/46 It. 66 ✓	1893/A.74	Use of Precombustion chamber in the Ring Process.
F.D. 2866/46 It. 67. ✓	1893/A.75.	An Apparatus used to Determine Metallic Abrasion during Lubrication.
F.D. 2866/46 It. 73. ✓	1893/A.82.	Testing of Lubricants by Measurement of Wear.
F.D. 2866/46 It. 82. ✓	1893/A.91	The Falex Oil Testing Apparatus—a comparison with the "Four Ball" and Almen-Wieland machine.
F.D. 2866/46 It. 84 ✓	1893/A.93	Nitro-paraffins as fuels.
F.D. 2866/46 It. 86 ✓	1893/A.95	Testing of Eleven Aviation Oils
F.D. 2866/46 It. 88 ✓	1893/A.97	Investigation of the Pumpability of Oils.
F.D. 2866/46 It. 90 ✓	1893/A.99	Wear and Friction Tests
F.D. 2866/46 It. 92 ✓	1893/A. 104	Octane Number Determination by the Oppan Method
F.D. 2867/46 It. 12 ✓	1893/B.24	Influence of sulphur compounds on the anti-knock value and the residue formation of leaded fuel
F.D. 2867/46 It. 27 ✓	1893/B44	Small super-charged engines developed on the principle of the DVL super-charge process in the BMW 132 N-single cylinder

<u>Document Number</u>	<u>Cics Reference Number</u>	<u>Title</u>
F.D. 2857/46 It. 53 ✓	1893/B.70.	Effect of the Cetane Number of Diesel Fuels on the Starting Behaviour
" " " It. 71 ✓	1893/E.88	Investigations on the anti-corrosion substance H ₂ O 1/136 Na
" " " It. 72 ✓	1893/B.89	Oppanol as an additive for winter motor oils
" " " It. 77 ✓	1893/B.95	Test of an anti-corrosion substance for fuel tanks.
" " " It. 83 ✓	1893/E.102	Super-Charge Testing of Aviation Fuels under full size Engine Conditions
" " " It. 95 ✓	1893/B.119	Short Report No. 412 on Gasoline-Water-Emulsions.
F.D. 2868/46 It. 82 ✓	1893/C.85	The influence of Decreasing Setting Point on Diesel Oils.
F.D. 2869/46 It. 6 ✓	1893/D.2 pt	On the Adsorption of Dissolved Dipolar Molecules on Solid Metals
" " " It. 15 ✓	1893/E.5.	Tests on a four-ball oil test machine.
" " " It. 16 ✓	1893/E.6.	Measurement of Coefficient of Friction by Means of the PTR Instrument
" " " It. 29 ✓	1893/F.12	The Estimation of Lubricating Ability by Means of Engine Tests
" " " It. 31 ✓	1893/F.14	Detection and Determination of Products of Ageing of Lead Tetra-Ethyl in Fuels
" " " It. 34 ✓	1893 /F.18	The Influence of Working Conditions on Piston Temperature.

<u>Document Number</u>	<u>Clos Reference Number</u>	<u>Title</u>
F.D. 2869/It. 73 ✓ 46	1893/H.11.	The Examination of Two Oils with Synthetic Fatty Additives for Suitability for use in Aero Engines
" " " 74 ✓	1893/H.21.	The Testing of Lubricants in the BMW 132 Single Cylinder Engine
F.D. 2870/It. 8 ✓ 46	1893/I.18	Experiments with two samples of Diesel fuel, NCGs 181 and 182 from Dr. Montfort, High Pressure Research, Ludwigshafen.
" " " 85 ✓	1893/I.90	Investigation of suitability of IGENIL as a bearing material
" " " 96 ✓	1893/I.103	Experiments with Aero-Engine Oils in the BMW Engine
F.D. 2871/46 It. 23 ✓	1893/I.136	Minutes of the Meeting of the Special Committee on the Standardisation of Engine Tests on Diesel Fuels of the DVM 14 and 15 April 1942.
" " " It. 43 ✓	1893/N.15 pt	Thermo-electric Method for comparative tests of lubricants in a state of boundary lubrication
" " " It. 62 ✓	1893/N.15 pt	New facts on Lubrication
" " " It 63 ✓	1893/N.15 pt	Sliding Tests on metals in boundary Lubricants
" " " It. 69 ✓	1893/Q.9.	I.G. Patent Specifications 10.7.43 Lubrication of internal combustion Engines
" " " It. 71 ✓	1893/Q.11	Contribution on non-hydro-dynamic lubrication
" " " It. 90 ✓	1893/Q.35	Test with R-fuels

<u>Document Number</u>	<u>Cios Reference Number</u>	<u>Title</u>
F.D. 2872/It. 3 ✓ 46	893/U.5 pt.	Single Cylinder tests with internal cooling
" " It. 5 ✓	1893/U.5 pt	Basic problems in the use of O ₂ Carriers
" " It. 6 ✓	1893/U.5 pt.	Experimental results with GML in aero-engines
" " It. 7 ✓	1893/U.5 pt.	The Ring Process
" " It. 8 ✓	1893/U.5 pt.	The Ring Process in the BMW 323
" " It. 9 ✓	1893/U.5. pt.	Problems of the Ring Process
" " It. 10 ✓	1893/U.5. pt.	Operating engines on safety fuels.
" " It. 11 ✓	1893/U.5 pt.	Tests with safety fuels
" " It. 12 ✓	1893/U.5. pt.	Behaviour of safety fuels in firing tests
" " It. 14 ✓	1893/U.7.	Work carried out at Oppau on I.G. Research Engine
" " It. 17 ✓	1893/U.10	Correlation of fuel research and supply problems
" " It. 20 ✓	1893/U.13	The gasoline diesel engine
" " It. 40 ✓	1893/X.9	Aviation Work at Oppau
" " It. 48 ✓	1893/Z.5	Report on Conference on Lube. Oil testing in the BMW 132 N. Single cylinder motor
" " It. 49. ✓	3996/S.A.1.	Effect of peroxide in engines and its determination
" " It. 50 ✓	3996/S.A.2.	Effect of aldehyde in engines and its quantitative determination
" " It. 52 ✓	3996/G.A.4.	FKFS Process for determining bromine in fuels
" " It. 56 ✓	3996/S.C.4.	Investigations into the development of the spontaneous ignition operation of mixture compression engines
" " It. 73 ✓	3996/S.C.13	Additives to improve oil
" " It. 75 ✓	3996/S.D.2	Instrument for the measurement of Ignition delay (Pattern 1943)

<u>Document Number</u>	<u>Cics Reference Number</u>	<u>Title</u>
F.D.2872/46 It.88. ✓	3996/ S.F.3	New Method of evaluating power of oils and greases
" " " It.89. ✓	3996/ S.F.4	Method for determining technical value of lubricants
" " " It.94. ✓	3996/ S.F.9.	Ignition accelerators for diesel fuels
" " " It.99. ✓	3996/ S.G.2.	Tests on a Carburettor Engine with Self-ignition.
F.D. 2873/46 It. 7 ✓	3996/SH4. Vol.11 pps. 141-148 ✓	Investigation of Lab. Methods for the Determination of the lead content of fuels (pt. only)
" " " "	" pps. 149-155 ✓	Determination of "I-T" and its ageing products in aero-engine fuels.
" " " "	" pps. 156-161 ✓	Testing lubricating oils by friction and wear tests on engines.
" " " "	pps. 162-169 ✓	Supervision of piston temperature during endurance testing
" " " "	pps. 170-178 ✓	Laboratory Method for Testing the Ageing of Lubricating Oils
" " " "	pps. 179-187 ✓	The Quantitative Determination of the Composition of Liquids (Mixtures of several components), based on their Selective Absorption in the Infra-red Spectral Region
" " " It. 8 ✓	3996/S.H.5. pps. 2-10 ✓	Recent experiments on self-ignition of fuels under adiabatic compression.
" " " "	pps.11-18 ✓	The application to engine conditions of laboratory experiments on self-ignition of fuels.
" " " "	pps. 18-27 ✓	Discussion.
" " " "	pps. 28-55 ✓	Pre-reactions in gasoline engines without ignition.

<u>Document Number</u>	<u>CIOS Reference Number</u>	<u>Title</u>
F.D. 2873/46 It. 81	3996/S.H.5. pps.56 - 71 ✓	Investigations on the reaction kinetics of the Oxidation of n-and i-paraffins.
F.D. " " "	pps. 72- 77 ✓	Discussion
" " " "	pps. 77 - 89 ✓	New Tests for the determination of individual factors effecting engine knocking
" " " "	pps. 89- 91 ✓	Discussion
" " " "	pps. 91 - 109 ✓	Adiabatic change of state in dissociating gases and the method of sound dispersion for the study of very rapid, homogeneous gas reactions
" " " "	pps. 109 - 112 ✓	Discussion
" " " "	pps. 112 - 127 ✓	The physico-chemical problem of the engine ignition of gas mixtures. Self-ignition and knocking
" " " "	pps. 127 - 141 ✓	Measurement of the ignition velocity of flowing gas-air mixtures
" " " "	pps. 141 - 151 ✓	Discussion
F.D. 2873/46 It. 13 ✓	3996/S.J.4.	FKFS Report Letters Nos. 953/1, 2 and 3 22.5.41. - EXPERIMENTS WITH GMI
" " It. 18 ✓	3996/ S.J.9.	The Preparation of Phosphorus compounds and their use in Lubricants
" " It. 24 ✓	3996/S.K.6.	Research work on the production of valuable lubricants from crude oil from home sources, carried out on behalf of the Ministry of Transport
" " It. 62 ✓	3996/1	Technical Specification for Fuel F2.
" " It. 63 ✓	3996/1a	Specification for Aviation Fuels B4 and C3.

<u>Document Number</u>	<u>CIOS REFERENCE NUMBER</u>	<u>Title</u>
F.D. 2873/46 It. 64 ✓	3996/2	Provisional specification for jet fuel J2 and running-in fuel Einlauf J2
F.D. 2873/46 It. 65 ✓	3996/2a	Specification for Aero Diesel Fuel K1
F.D. 2873/46 It. 66 ✓	3996/3	Specification for aviation fuel A3
" " " 67 ✓	3996/4	Freezing Properties of A.3 and B.4
" " " 68 ✓	3996/5, pt.	Carburettor Fuels
" " " 69 ✓	3996-6	Specification for carburettor and diesel fuels for delivery to the services (Summer 1944)
" " " 70 ✓	3996-7	Tech. delivery specifications for Aviation Fuels A3 and B4 and their constituents
" " " 73 ✓	3996-10	Tech. Instruction 7/44
" " " 74 ✓	3996-11	" " 6/44
" " " 75 ✓	3996-12	Tech. Specifications for Aviation Oils S3, its components, and V2
" " " 76	3996-13	Tech. Delivery Specifications for starting fuels for use in Otto Engines
" " " 77 ✓	3996-14	Tech. Delivery Specifications for Aero-Engine Fuels for Active Service Use
" " " 78 ✓	3996-15	Provisional Tech. Delivery Specifications for Army Gear and Engine Oil
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F.D. 2874/46 It. 6 ✓	3996/41	Copy of 4d Specification German Navy Lubricating Oils
F.D. " " " 10 ✓	3996/30/301 No.45	Process for the Manufacture of a Burner Fuel from Acid Tar.

BEGIN
 TOM. 249 ←
 END OF TOM. 248