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MICROFILM REEL: 5939-1

1. The first part of the film deals with a long series of letters, contracts, agreements, etc., covering such topics as contracts for quantities of gasoline for the German Air Force, specifications and testing of gasoline for the German Air Force, transportation of inflammable material over the German railroads, and marking of goods for railroad transportation.
2. Cost calculations for the production of 25,000 tons a year of Air Force gasoline without special development work (40 pages).
3. Specifications and cost estimates on D.H.D. gasoline (100 pages).
4. A series of letters on credit investigations.
5. The preparation of alkylate gasoline AT-244 from butane and isobutane (12 pages).
6. A series of letters concerning delayed ignition in Diesel engines and anti-knock rating in fuel combustion studies.
7. Published paper from the Technische Motor Journal on ignition studies.
8. A series of letters on fuel mixtures and on the effect of carbon monoxide on steel.
9. A series of letters on overload and anti-knock values of motor fuels.
10. Equipment and floor plans for the institute for research on DVL benzin under Doctor Phillipovich.
11. A series of articles from the Technical Journal of Physics on the absolute entropy value of fuel on specifications for re-run gasoline.
12. Research on aromatic mixtures for anti-knock properties, and on octane number of various aromatic fuels.
13. Letter on a fuel of 130 to 150 octane rating.
14. Report of fuel used in Allied aircraft, 1944 (7 pages)

15. Discussion of combustion temperatures of methanol and iso-octane.
16. A series of letters on research on American bomber fuels.
17. Bibliography of U.S.A. literature on aviation gasoline 1943 to 1944 (7 pages).
18. Motors and fuels of Allied aircraft
19. List and description of production of combat planes in Allied countries
20. Synthetic fuel production in the U.S.A., 1942.
21. Aircraft fuel production in German occupied European countries
22. Production and supply of aircraft fuel for countries outside of Germany
23. A series of letters dealing with motor testing, anti-knock rating, shipments, etc
24. Aromatic extraction from gasoline with sulfur dioxide, propane and other materials (5 pages.)
25. An account of a discussion on motor fuels at Berlin at the Motor Institute
26. Research on the use of hydrogen containing small amounts of carbon monoxide in the hydrogenation of diisobutylene.
27. Preparation of iso-paraffins, especially iso-octane.
28. Preparation of isopropyl benzene and its uses as a motor fuel, April 1944 (14 pages)
29. A series of letters on the production and equipment flow sheets, capacity calculations, for a plant to produce 20,000 tons per year of isopropyl benzene by the alkylation of benzene with propylene in the presence of aluminum chloride