

Publications of the
DEPARTMENT OF COMMERCE
BUREAU OF STANDARDSLetter
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WASHINGTON, D.C.

March 1, 1924.

PUBLICATIONS RELATING TO PETROLEUM PRODUCTS

(The publications not starred may be purchased from the Superintendent of Documents, Government Printing Office, Washington, D. C., at the prices stated. Those marked with a star are out of print, but may be consulted at leading libraries.)

S c i e n t i f i c P a p e r s

Number	Title	Price
*S 153	Action of sunlight and air upon some lubricating oils.	5¢
S 160	Behavior of high boiling mineral oils on heating in air.	5¢
S 278	An investigation of laws of plastic flow. . .	10¢
*S 298	Standard substances for the calibration of viscosimeters.	5¢
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THE UNIVERSITY OF CHICAGO
DIVISION OF THE PHYSICAL SCIENCES
DEPARTMENT OF PHYSICS

REPORT OF THE
COMMISSIONER OF THE
BUREAU OF MINES

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
WASHINGTON, D. C.

RESEARCH REPORT
ON THE
PHYSICAL PROPERTIES OF
MINERAL OILS

BY
J. H. VAN DER KAM
AND
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T 112	Standardization of the Saybolt Universal viscosimeter.	10¢
*T 125	Viscosity of gasoline.	5¢
T 140	Constant temperature still head for light-oil fractionation.	5¢
T 164	The Saybolt viscosity of blends.	5¢
T 176	Slushing oils.	5¢
T 177	Sulphur in petroleum oils.	5¢
T 204	Cutting fluids.	15¢
T 210	The Redwood viscosimeter.	10¢
T 223	Reclamation of used petroleum lubricating oils.	5¢

Note: Scientific Papers 153 and 160 and Technologic Papers 4, 13, 73, and 177 appeared entire or in abbreviated form in the Journal of Industrial and Engineering Chemistry, Volumes 2, 3, 5, 8, and 12.

<u>C i r c u l a r s</u>		
Number	Title	Price
*C 45	Testing of materials, pages 68 to 72.	10¢
C 57	U. S. Standard tables for petroleum oils. . .	15¢
C 59	U. S. Standard Baume' hydrometer scales. . .	5¢
C 99	Carbonization of lubricating oils.	10¢

<u>M i s c e l l a n e o u s</u>		
Number	Title	Price
M 15	Some technical methods of testing miscellaneous supplies, pages 57 to 59.	15¢

[illegible]

1. *Journal of the American Medical Association*, 1977; 237: 1001-1002.
 2. *Journal of the American Medical Association*, 1977; 237: 1002-1003.

J o u r n a l R e f e r e n c e s

The Catalytic Oxidation of Petroleum oils -
Journ. of Ind. & Engr. Chem., Vol. 13, 901 (1921).

Sulphur Compounds and Oxidation of Petroleum Oils -
Journ. of Ind. & Engr. Chem., Vol. 14, 725 (1922).

Service Tests of Lubricants on Automobile Engines -
Am. Pet. Inst. Bulletin 73.

Quantitative Test for Resistance of Lubricating Oils to
Emulsification -
Proc. A.S.T.M., Vol. 16, part 2, p. 248; 1916 (T.P. 86)

Determination of Absolute Viscosity by the Saybolt Uni-
versal and Engler Viscosimeters -
Proc. A.S.T.M., Vol. 17, p. 551; 1917, part 2 (T.P. 100)

The Standard Saybolt Universal Viscosimeter, -
Proc. A.S.T.M., Vol. 18, part 2, p. 384; 1918 (T.P. 112)

A Viscosimeter for Gasoline -
Proc. A.S.T.M., Vol. 19, part 2, p. 676; 1919 (T.P. 125).

The MacMichael Viscosimeter -
Journ. Ind. & Engr. Chem., Vol. 12, p. 282; 1920.

The Saybolt Viscosity of Oil Blends -
Chem. & Met. Engr., Vol. 22, p. 1109, June 16, 1920 (TP164)

Use of MacMichael Viscosimeter in Testing Petroleum Products
(with F.W. Dean, petroleum chemist, Bureau of Mines) Reports and
Investigations, Serial No. 3201, Jan. 1921. Issued by Bureau of
Mines.

The flow through short tubes -
Trans. A.S.C.F., Vol. 84, p. 527, 1921. (This paper is
along the same lines as P.S. Tice, B.S. Aeronautic Power Plant
Report No. 10, being an investigation of the laws of flow upon
which measurements of viscosity by flow tests depends.)

Viscosity and Friction -
Journ. S.A.E., Vol. 10, pp. 31, 369; 1922.

Fuel Oil Viscosimeters -
Chem. & Met. Engr., Vol. 26, p. 1175, June 21, 1922.

The Change in Viscosity of Oils with the Temperature -
Journ. Ind. & Engr. Chem., Vol. 14, p. 715, Aug. 1922.

- The Drainage Error in the Bingham Viscosimeter -
Journ. Optical Society of America and Review of Scientific Instruments, Vol.6, p. 875, October 1922.
- Testing Oiliness by Friction Testing Machines -
Chem. & Met. Engr., Vol.28, p.303, Feb. 14, 1923.
- Friction Testing of Lubricating Oils -
Chem. & Met. Engr., Vol.28, p.594, March 28, 1923.
- Testing Lubricating Oils for Quality -
Proc. Engineers Society of Western Pennsylvania,
Vol.38, p.503, January 1923.
- The Improved MacMichael Viscosimeter,-
Jour. Optical Society of America and Review of Scientific Instruments, Vol.7, p.335, April 1923.
- Bath Temperatures of Viscosimeters of the Saybolt Type -
Ind. & Engr. Chem., Vol.15, p.945, 1923.

The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that every entry must be supported by proper documentation, such as receipts or invoices. This ensures transparency and allows for easy verification of the data.

Furthermore, the document highlights the need for regular audits. By conducting periodic reviews, any discrepancies or errors can be identified and corrected promptly. This proactive approach helps in maintaining the integrity of the financial system and prevents potential issues from escalating.

In addition, the document stresses the importance of clear communication between all parties involved. Regular meetings and reports should be used to keep everyone informed about the current status and any changes that may affect the operations. This collaborative effort is essential for the successful implementation of the project.

Finally, the document concludes by reiterating the commitment to high standards of accuracy and transparency. It encourages all team members to adhere strictly to the established protocols and to report any concerns or findings immediately.