

Viscosity Grade	Minimum Viscosity @ 100°C (cSt.)	Maximum Viscosity @ 100°C (cSt.)	Maximum Cranking Viscosity (cP) @ Temp. (°C)	Maximum Pumping Viscosity (cP) @ Temp. (°C)
0W	3.8	–	6,200 @ –35	60,000 @ –40
5W	3.8	–	6,600 @ –30	60,000 @ –35
10W	4.1	–	7,000 @ –25	60,000 @ –30
15W	5.6	–	7,000 @ –20	60,000 @ –25
20W	5.6	–	9,500 @ –15	60,000 @ –20
25W	9.3	–	13,000 @ –10	60,000 @ –15
20	5.6	< 9.3	–	–
30	9.3	< 12.5	–	–
40	12.5	< 16.3	–	–
50	16.3	< 21.9	–	–
60	21.9	< 26.1	–	–

Viscosity Oil Co Hytran Data

Maria A. Barrufet



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Material Safety Data Sheets Service, 1989 **Applied Mechanics Reviews**, 2005 Pugh's Dictionary of Acronyms and Abbreviations Eric Pugh, 1987 **Viscosity and Density of Over 40 Lubricating Fluids of Known Composition at Pressures to 150,000 Psi and Temperatures to 425 F** American Society of Mechanical Engineers. Research Committee on Lubrication, 1953 **Estimating Heavy Oil Viscosity from Seismic Data** Fereidoon Vasheghani Farahani, 2011 **An Automated Data Quality Control Procedure to Screen Crude Oil Viscosity Data** Maria A. Barrufet, 2001 *Viscosity of Liquids* Dabir S. Viswanath, Tushar K. Ghosh, Dasika H.L. Prasad, Nidamarty V.K. Dutt, Kalipatnapu Y. Rani, 2007-03-31

The need for properties is ever increasing to make processes more economical. A good survey of the viscosity data, its critical evaluation and correlation would help design engineers, scientists and technologists in their areas of interest. This type of work assumes more importance as the amount of experimental work in collection and correlation of properties such as viscosity, thermal conductivity, heat capacities etc. has reduced drastically both at the industry, universities and national laboratories. One of the co-authors, Professor Viswanath, co-authored a book jointly with Dr. Natarajan, *Data Book on the Viscosity of Liquids* in 1989, which mainly presented collected and evaluated liquid viscosity data from the literature. Although it is one of its kinds in the field, Prof. Viswanath recognized that the design engineers, scientists and technologists should have a better understanding of theories, experimental procedures and operational aspects of viscometers. Also, rarely the data are readily available at the conditions that are necessary for design of the equipment or for other calculations. Therefore, the data must be interpolated or extrapolated using the existing literature data and using appropriate correlations or models. We have tried to address these issues in this book.

Viscosity of Lubricants Under High Pressure Mayo Dyer Hersey, Richard F. Hopkins, 1945 High-temperature, High-shear (HTHS) Oil Viscosity James A. Spearot, 1989 *Low Temperature Lubricant Rheology Measurement and Relevance to Engine Operation* Robert B. Rhodes, 1992

Papers were presented at a symposium held in Austin, Texas, in December 1991. Subjects include a history of ASTM accomplishments in low temperature engine oil rheology from 1966, 1992 critical aspects of pumping viscosity by mini rotary viscometer, the scanning Brookfield technique of low temperature.

Trade Catalogs on Motor Oil Viscosity Measuring Instrument ... Viscosity Engineering Corporation, 1931 The Effective Approach for Predicting Viscosity of Saturated and Undersaturated Reservoir Oil Sawin Kulchanyavivat, 2006

Predicting reservoir oil viscosity with numerical correlation equations using field measured variables is widely used in the petroleum industry. Most published correlation equations, however, have never profoundly realized the genuine relationship between the reservoir oil viscosity and other field measured parameters. Using the proposed systematic strategy is an effective solution for achieving a high performance correlation equation of reservoir oil viscosity. The proposed strategy begins with creating a large database of pressure-volume-temperature (PVT) reports and screening all possible erroneous data. The relationship between the oil viscosity and other field

measured parameters is intensively analyzed by using theoretical and empirical approaches to determine the influential parameters for correlating reservoir oil viscosity equations. The alternating conditional expectation ACE algorithm is applied for correlating saturated and undersaturated oil viscosity equations. The precision of field measured PVT data is inspected by a data reconciliation technique in order to clarify the correctness of oil viscosity correlations. Finally the performance of the proposed oil viscosity correlation equations is represented in terms of statistical error analysis functions. The result of this study shows that reservoir oil density turns out to be the most effective parameter for correlating both saturated and undersaturated reservoir oil viscosity equations. Expected errors in laboratory measured oil viscosity are the main factors that degrade the efficiency of oil viscosity correlation equations. The proposed correlation equations provide a reasonable estimate of reservoir oil viscosity and their superior performance is more reliable than that of published correlation equations at any reservoir conditions.

Evaluation of Compositional Viscosity Models for Medium-heavy Oils Bipin D. Raut, 2008. The in place resources of heavy oil on the Alaska North Slope ANS are huge estimated to be around 23 billion barrels. The highly viscous nature of these oils makes viscosity a key parameter in designing potential recovery methods. The contemporary viscosity models however are unable to predict the viscosities of these oils with sufficient accuracy. In this study a rigorous literature search was carried out to compile available compositional viscosity models and their modifications for application to heavy oils. With the help of the meticulously amassed new medium heavy oil viscosity data a comparative study was conducted to evaluate the potential of various models. With the limited capacity of most of these models the recently proposed Lindeloff model was chosen for further consideration. Based on the analysis appropriate adjustments have been suggested the major one being the division of the pressure viscosity profile into three different regions. New modifications have improved the overall fit including the saturated viscosities at low pressures. The percent average absolute deviation for the twelve data sets studied was found to be 1.37. However with the limited amount of geographically diverse data it is not possible to make a comprehensive predictive model. A few limitations of the new model are also delineated. Leaf iii

EXPERIMENTAL AND THEORETICAL DETERMINATION OF HEAVY OIL VISCOSITY UNDER RESERVOIR CONDITIONS. , 2003. The USA deposits of heavy oils and tar sands contain significant energy reserves. Thermal methods particularly steam drive and steam soak are used to recover heavy oils and bitumen. Thermal methods rely on several displacement mechanisms to recover oil but the most important is the reduction of crude viscosity with increasing temperature. The main objective of this research is to propose a simple procedure to predict heavy oil viscosity at reservoir conditions as a function of easily determined physical properties. This procedure will avoid costly experimental testing and reduce uncertainty in designing thermal recovery processes. First we reviewed critically the existing literature choosing the most promising models for viscosity determination. Then we modified an existing viscosity correlation based on the corresponding states principle in order to fit more than two thousand commercial viscosity data. We collected data for

compositional and black oil samples absence of compositional data The data were screened for inconsistencies resulting from experimental error A procedure based on the monotonic increase or decrease of key variables was implemented to carry out the screening process The modified equation was used to calculate the viscosity of several oil samples where compositional data were available Finally a simple procedure was proposed to calculate black oil viscosity from common experimental information such as boiling point API gravity and molecular weight *Approximate Data on the Viscosity of Some Common Liquids* Engineering Sciences Data Unit,1966 **ESDU engineering sciences data** Engineering Sciences Data Unit Ltd. (London),1991 **Technical Data Book** ,1983 *Oil Lubriguide Prevents Faulty Lubrication* Viscosity Engineering Corporation,1932 *Low Temperature Viscosity Characteristics of Used Engine Oils* F. E. Didot,T. F. Lonstrup,1980

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