

SINOPEC HYDRAULIC TRANSMISSION MULTI-FUNCTIONAL FLUID 10W-30 (UTTO)

Sinopec Hydraulic Transmission Multi-functional Fluid 10W-30 is an extra high performance universal tractor transmission oil (UTTO), formulated with high quality hydro-treated base oils and a multi-functional additive system. It designed to meet or exceed hydraulic and transmission fluid requirements, and to reduce wet brake and power take-off (PTO) chatter. It ensures excellent performance in agricultural and commercial tractors operating in a wide range of environments and conditions, and is particularly useful in equipment where a common lubrication system supplies oil for different applications. Key specifications: API GL-4; Allison C-4 John Deere JDM 20C & 20D.

FEATURES AND BENEFITS

A multi-functional oil for hydraulic, transmission and wet brake systems, and suitable for high power tractors.

Excellent shear stability ensures good viscosity retention even in conditions of high temperature and heavy load, and prolongs the service life of hydraulic transmission systems.

Outstanding fluidity and good low temperature properties ensure smooth start up and operation even in cold weather.

A special friction modifier ensures smooth action in wet brakes and power take-off clutches, minimises vibration, chatter, stick-slip and squawk, and prolongs service life.

Good anti-wear performance protects moving parts from wear and metal fatigue, ensures long equipment life, and provides excellent protection against gear scuffing, pitting and wear in applications where an API GL-4 product is required.

Excellent thermal and oxidation stability minimise the formation of deposits that could lead to component wear, and also ensure longer oil life.

Excellent protection against rusting and corrosion increases the service life of system components.

Good anti-foaming properties ensure optimum oil film thickness is maintained and reduces oil leakage from the system.

Good compatibility with most common seals and elastomer materials used in agricultural equipment prolongs seal life and reduces leakage.

TYPICAL DATA

SAE grade	10W-30
Kinematic viscosity, ASTM D 445	
cSt @ 40°C	63.38
cSt @ 100°C	10.08
Viscosity index, ASTM D 2270	145
Brookfield viscosity, ASTM D 2983	
cP @ -35°C	29,000
cP @ -20°C	4,350
Pour point, °C, ASTM D 97	-43
Flash point (COOC), °C, ASTM D 92	236
Density @ 15°C, kg/l, ASTM D 4052	0.867

Note: These data are given as an indication of typical values and not as exact specifications.

RECOMMENDED APPLICATION

- Transmission and hydraulic systems, wet brakes and final drives of tractors and other agricultural or forestry equipment with common lubrication systems, where a UTTO type lubricant is required.

SPECIFICATION AND APPROVAL

API	GL-4
Allison	C-4 (agricultural applications only)
Case	M1206, M1207, M1210
Caterpillar	TO-2
CNH	MAT 3525
Ford	ESN-M2C134-D (F8HA-2-G-201.00)
John Deere	JDM J20C and J20D
Kubota	UDT
Massey Ferguson	M1135, M1141, M1143
Volvo CE	WB-101
ZF	TE-ML-03E, TE-ML-05F



Viscosity Oil Co Hytran Data

Bipin D. Raut



Viscosity Oil Co Hytran Data:

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 *Viscosity of Lubricants Under High Pressure* Mayo Dyer Hersey, Richard F. Hopkins, 1945

Estimating Heavy Oil Viscosity from Seismic Data Fereidoon Vasheghani Farahani, 2011 *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 An Automated Data Quality Control Procedure to Screen Crude Oil Viscosity Data Maria A. Barrufet, 2001 *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 *High-temperature, High-shear (HTHS) Oil Viscosity* James A. Spearot, 1989 **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

Technical Data Book, 1983 **Data on the Viscosity of Fluids** J. M. S. Campbell, 1961 The Relationship Between Engine Oil Viscosity and Engine Performance R. M. Stewart, 1977 Viscosity Data for the Characterization of Petroleum Fluids Leopoldo Luis Larsen, 1990 **ESDU engineering sciences data** Engineering Sciences Data Unit Ltd. (London), 1991

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