



TESTER PETROLEUM EQUIPMENT BPTL-104

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APPARENT VISCOSITY TESTER

This instrument measures the high-temperature high-shear (HTHS) apparent viscosity of engine oil under conditions of 150°C and a wall shear rate of $1.4 \times 10^6 \text{ s}^{-1}$ using a multi-capillary viscometer equipped with pressure, temperature, and timing devices. The shear rate specified in this standard can reduce the differences between this method and other test methods for determining high-temperature high-shear apparent viscosity. The viscosity is directly measured using a calibration curve established with Newtonian oils that have an apparent viscosity of 2 mPa·s to 5 mPa·s at 150°C.



Accessories are interchangeable with imported instruments;
Equipped with dedicated high-shear viscosity calculation software;
The instrument allows for continuous operation 24 hours a day, 365 days a year;
No solvent cleaning is required, only a small amount of new samples are needed for rinsing;
The glass capillary tubes meet standard requirements, with a diameter of 0.15mm and a length of 16mm;
For users with research purposes, different shear rates and test temperatures can be set;
5 sample units can be measured continuously and quickly in a cycle, with 15 to 20 samples per hour;
Touch liquid crystal screen control, direct operation on the LCD screen;

SPECIFICATIONS

Model	BPTL-104
Applicable Standard	SH/T0703, ASTM D5481
Heating method	Electric heating rod
Test temperature	Ambient to 150°C
Temperature control accuracy	±0.1°C
Working unit	5 tubes
Control method	Touch liquid crystal screen
Shear rate	$1.4 \times 10^6 \text{ s}^{-1}$
Result calculation	Windows version high-temperature high-shear viscosity calculation software
Screen display content	Test pressure, test time, sample temperature, equilibration time
Pressure range	350 ~ 3500 kPa (50 ~ 500 psi), pressure control accuracy: $\leq \pm 1\%$
Total power	500W
Instrument dimensions	300 x 500 x 700 mm
Net weight	50 kg
Alt Name	Apparent Viscosity Tester

FEATURES

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Touch liquid crystal screen control, direct operation on the LCD screen;
The software automatically recommends test pressure, and test results can be generated in an Excel report format;



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