

52DV Digital Viscometer

Viscosity is the primary indicator of the essential lubricating property of a fluid, determining the nature and the thickness of the fluid film between surfaces. In approximately one minute per test, the Digital Viscometer gives the user the capability to detect misapplication of lubricant (e.g., wrong or mixed oils); detect fuel dilution in liquid-fueled engine application; establish the lubricant viscosity for purposes of trending; and set parameters for further tests with viscosity-dependent characteristics.

The viscometer is easy to use and fits unobtrusively on a desktop, plugging directly into your computer or the CSI 5100 Machinery Health Oil Analyzer. An internal cooling mechanism

allows the viscometer to give repeatable results within +/- 5% error and allows it to remain in calibration for a greater variation in room temperature. The new test cycle consists of 20 ball revolutions for stirring followed by 80 revolutions of test data.

The latest oil analysis module of the AMS Suite: Machinery Health Manager software, version 3.3 or higher, has been changed to achieve optimum results from the viscometer. Test time will vary with actual room temperature and oil viscosity. The knowledge-based expert software system allows for maximum simplicity in testing, providing display, database, user interface, and reporting.



- Allows identification of wrong or mixed lubricants
- Output allows user to work in standard industry units
- Most tests performed in under one minute for fast results
- Small size for desktop use
- Straightforward sample preparation for simple operation
- Integrates directly with Tribology Minilab

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Physical Dimensions	
Depth:	3.7 in (10 cm)
Height:	4.3 in (11 cm)
Width:	3.7 in (10 cm)
Weight:	3.2 lbs. (1.5 kg)
Power Supply	12v DC supplied via 15-pin HD sub-D cable to analyzer.
Interface	Operation from IBM-compatible PC. Power and communications via 15-pin Sub-D communications cable linking to analyzer port number 2. Optional interface directly to IBM-compatible PC serial port. Option requires addition of 2.5A 12v DC power supply with a special 9-pin adapter.
Output	Viscosity reported in cSt at 40°C, measures cPs at room temperature, and converts in software. Output has +/- 5% error when operating within +/- 3°C (+/- 5°F) of calibration temperature.
Hardware Conditions	<ul style="list-style-type: none">■ Storage 0 to 50°C, operation verified between 15 to 35°C■ Test volume of 12ml■ Tests all mineral oils and synthetics■ Clean with paper tissues
Calibration	Factory calibration allows measurement of viscosity grades 20 to 680. This range may be extended somewhat through operator re-calibration.
Optional Accessories	Calibration fluids, 2.5A 12v DC power supply, and 9-pin cable adapter.

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