

siteLAB®

Petroleum Hydrocarbon Solutions

TD 500D



INSTRUMENT SPECIFICATIONS

Weight & Dimensions:	13.9 oz (0.4 Kg); 1.75" x 3.5" x 7.25" (4.5 cm x 8.9 cm x 18.4 cm).
Power Requirements:	Four AAA batteries. Batteries good for approx. 1,000+ readings.
Operating Temperature:	45°F to 95°F; 7°C to 36°C.
Principle of Operation:	Hand-held ultraviolet fluorescence spectrophotometer.
Detector:	Factory-installed photomultiplier sensor.
Lamp:	Light Emitting Diode (LED).
Min. Detection Limits:	Varies depending on Sitalab Calibration Kit used; TPH-Oil 5 ppm, Heavy PAHs 25 ppb.
Display:	16 x 2 character LCD (2.5" x 0.6"; 6 cm x 1.5 cm); ppm or ppb units.
Data Output:	Not available. Record results manually.
Automatic Power Down:	After 3 minutes of inactivity.
Optical Filters:	Includes two sets of factory-installed excitation and emission filters; use Channel A optics for Sitalab applications.
Cuvettes:	Uses disposable 8 mm round glass cuvettes. Cuvettes are included with Sitalab sample extraction kits and calibration kits.
Calibration:	Single-point and blank.
Blank:	Reads and subtracts blank using methanol or hexane solvents.
Response Time:	5 Seconds.
Diagnostics:	Displays percent fluorescence sensitivity of calibration and blank.
Alarms:	Low battery, circuit failure, high blank.
Warranty:	One-year warranty, parts and labor.
Approvals:	CE, UL and C-UL. ISO 9001 manufacturing. Made in USA.

CONTAMINANTS

Test samples for TPH with heavy fuel oils, waste oils or crude oils. Test for PAHs in old, weathered fuel oils, creosotes, coal tars and coal ash.

QUICK RESULTS

Test soil, sediment or water samples in just 5 minutes using Sitalab test kits with solvent extraction.



ACCURACY

When used with Sitalab Calibration Kits, TPH-Oil results correlate well to EPA's 1644 gravimetric method. PAH results correlate well to EPA's 8270 method as sum of PAH compounds.

NEW UVF-TRILOGY

Sitalab's Trilogy analyzer replaced the TD-500D in 2018. Trilogy has similar sensitivity as the TD-500D. Use for same applications. Portable battery charger is available for use in field.



UVF-TRILOGY with TPH OIL UV module detects hydrocarbons in the oil and grease range (water or soil)