



Octane Number & Cetane Number Tester LOCT-B10

Octane Number and Cetane Number Tester LOCT-B10 is a portable device for rapid petroleum products quality monitoring in fields and lab environment conditions. Glass detector has a built in element sensitive to fuel sample temperature detection. The instrument electronic computing module processes detector signals, performs all necessary calculations, and constantly tests the main function modules. It is ideal used in the determination of octane, cetane numbers, pour point depressants and break down time in the oil and petroleum industries.

Features :

- ❑ Determining octane numbers for motor petrol
- ❑ Determining cetane numbers for diesel fuels
- ❑ Determining solidification temperature and diesel fuel type
- ❑ Determining content of antiknock compounds boosting the octane number of petrol
- ❑ Determining content of pour-point depressants for diesel fuels
- ❑ Determining content of kerosene in summer diesel fuel
- ❑ Petrol breakdown time (oxidative stability)
- ❑ Loss angle tangent of circuit-breaker, machine and engine oil
- ❑ Level of engine, machine and circuit-breaker oil clarity
- ❑ Determining engine oil base number
- ❑ Dielectric permeability of oil products
- ❑ Offers octane numbers standard with ASTM D 2699-86, ASTM D 2700-86
- ❑ Offers cetane numbers standard with ASTM D 4737-03, ASTM D 613
- ❑ 4 elements of AA type power supply
- ❑ Equipped with imitator

Application :

Octane Number & Cetane Number Tester used in oil and petroleum industries for determination of octane numbers, cetane numbers, petrol breakdown time, antiknock compounds, pour-point depressants, oil clarity, dielectric permeability, kerosene content, oil volume resistivity, etc.

Specifications:

Model	LOCT-B10
Octane number range	40 to 125 ON
Maximum error limit octane number	±0.5 ON
Maximum parallel ON difference	±0.2
Antiknock range	0.5 to 15 %
Maximum antiknock error limit	0.1 %
Petrol breakdown time	50 to 2400 min
Maximum time error limit	5 %
Volume resistivity	106 to 1014 Ohm
Volume error limit	3 %
Cetane number range	20 to 100 CN
Maximum error limit cetane number	±1.0 CN
Maximum parallel CN difference	± 0.5 CN
Diesel pour point error limit	2°C
Kerosene content range	0 to 50 %
Kerosene error limit	3 %
Pour-point depressants content	0.2 to 1 %
Pour point depressant error limit	0.01 %
Oil clarity error limit	50 to 100 %

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Maximum parallel oil clarity difference	0.1 %
Dielectric permeability range	1 to 5 units
Maximum error limit dielectric permeability	0.001 units
Maximum parallel dielectric permeability difference	0.001 units
Oils base number range	3 to 24 unit
Oil base error limit	1 BN unit
Oil voltage measurement range	5 to 100 kV
Voltage error limit	1 kV
Maximum parallel voltage difference	0.2 kV
Oil loss angle tangent range	0.01 to 40 %
Loss angle tangent error limit	0.01 %
Maximum parallel loss angle tangent difference	0.001 units
Mechanical impurities range	97 % to 100 %
Mechanical impurities error limit	0.01 %
Water in oil content range	0 % to 30 %
Water in oil error limit	1 %
Time measurement	1 sec to 5 sec
Storage temperature	5°C to 40°C
Relative humidity	98 % RH
Instrument useful life	6
Voltage supply	5.4 V
Dimension	100 × 210 × 40 mm
Sensor 1 and 2	60 × 100 mm
Net Weight	0.68 kg
Gross weight	0.85 kg