

Oilcheck

Fluid Condition Monitoring

Hand-held Monitor

Brochure: CM018GB1



anything **Parker**
Possible.™

Oilcheck

Hand-held Monitor

TYPICAL APPLICATIONS

- Fleet Owners
- Construction Equipment Maintenance
- Vehicle Service Garages
- Plant Hire Maintenance

Oilcheck from Parker combines the technology to detect and analyse the dielectric constant of oil, all in a completely portable, hand-held monitor.

Used as a regular service monitoring instrument, fully automatic Oilcheck will give the engineer warning of an impending engine failure and promote increased engine life. Oilcheck is the low-cost solution that will take the guesswork out of oil changes, saving money and saving time.



TYPICAL APPLICATIONS



- Advises when to change your oil
- Oilcheck gives a warning of impending engine failure
- Cost effective solution to save money and increase engine life
- Completely portable, battery powered
- Ideal for fleet owners, garages and DIY mechanics
- Red/Green Efficiency Scale



OPERATION

Oilcheck is available with a numerical display to show positive or negative increases in dielectrics. Abnormally high reading samples can also be monitored by switching the Oilcheck from LO into HI mode. This will be necessary if the sample has a high water contamination level or high amounts of metal particles in the sample.

By following the simple sampling procedure, Oilcheck will ensure effective and highly repeatable results. Once a clean oil sample has been placed in the "Sensor Well" and the 'TEST' button has been pressed, the instrument will 'zero' on the sample.

Once cleaned out with a degreaser and replaced by a contaminated sample, a new reading is obtained on the LCD which can be easily compared against the red/green efficiency scale.

CONTAMINATION EFFECTS

The usual contamination found in oils is caused by oxidation and acid build up, these occur during the normal running of an engine and should show up as a gradual increase in readings over a period of time or miles.

Other contaminants occur because of excessive wear or mechanical failure, the main elements of which are dirt, soot, fuel, water, anti-freeze and metal particles. These elements give a marked increase in the Oilcheck's reading and will give immediate warning of possible failure.

1. Water and anti-freeze will cause the segments to move smoothly round the display well into the red or to instantly complete a full sweep.
2. Metal particles will also cause an extreme reading, though the display should move up in little jumps as the particles settle on the sensor surface.
3. Fuel is harder to detect as it will sometimes mask the presence of other contaminants. If the oil is only contaminated by fuel the display will show it as a stronger reading well into the red but the presence of water or metal will sometimes counteract the fuel, giving a reading in the green. Should an engine continue to show no increase in its reading over a period of time the possibility of fuel contamination should be investigated.
4. The red and green areas are designed as an indication of the oils change in dielectric constant. This is a suggested threshold of acceptability only. Users should use the Oilcheck to monitor the change in the oils properties and build up a picture of the oils degradation based on their experience and own operating criteria. A different change period than that recommended by the Oilcheck may be more appropriate in some cases and the new threshold should be marked on the the units' scale.

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Using Oilcheck correctly

Oilcheck, if used correctly, will give reliable and repeatable readings of oil contamination and degradation, but the reliability of results will depend upon the care taken during calibrations and sampling.

Care must be taken to study the instructions and follow carefully the recommended testing procedure, if misleading readings are to be avoided.

It is important to avoid cross contamination from airborne particles or moisture during calibration and testing. Extremes of sample and ambient temperature should be avoided and care should be taken to ensure that calibration is carried out in conditions similar to those to be encountered during testing.

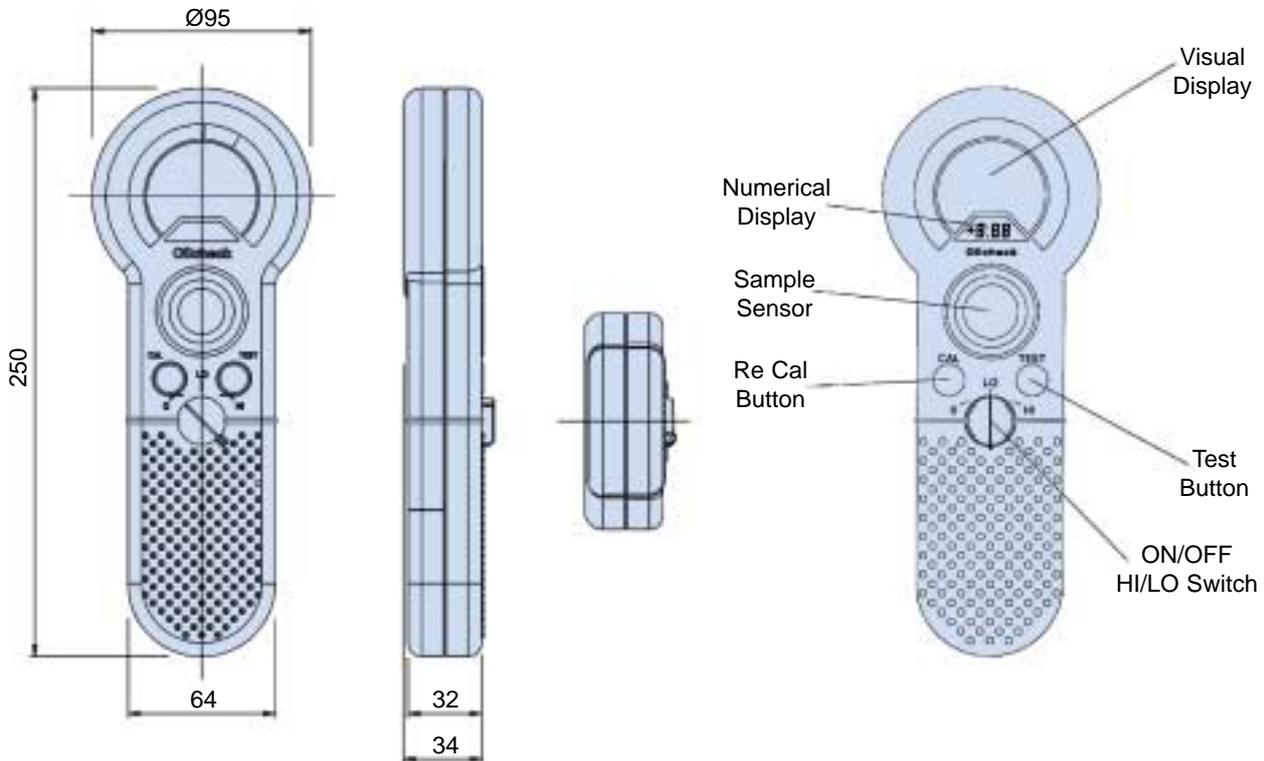
The sample chamber must be carefully cleaned between tests and its surface free from moisture and particles.

The Oilcheck will help to keep track of the conditions of your vehicle or machine, showing up trends of mechanical wear or oil performance and highlighting immediately any sudden increase in predicted wear patterns.

SPECIFICATION

Case construction: ABS
Circuitry: Microprocessor control
Battery: 1x9V battery

Weight: 0.4kg
Display: LCD



Part Number	Description
OLK.605	Oilcheck kit with numerical readout
OLK.611	Oilcheck cleaner