SKF Advanced bearing analysis kit

CMAK 600-EN

For industrial oil analysis and vibration test

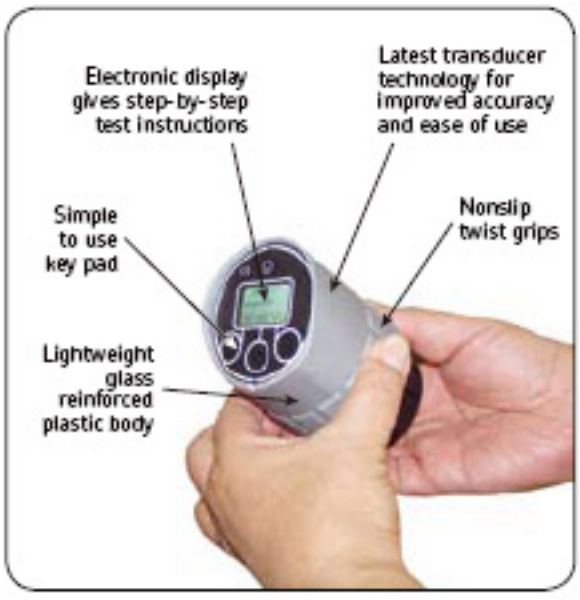
Supplied ready for use, in a heavy duty aluminum case, multi-parameter test kit contains all of the necessary equipment, and consumables for oil and overall vibration condition monitoring.

Features

- Fast accurate results for multiple oil parameters
- Easy to use, portable kit
- On-site maintenance decision
- Assessment of overall machine condition

Multiple measurements

The center of the SKF Advanced bearing analysis kit is the Test Cell, providing simple,



accurate results for Water in Oil (Lubricants) and Total Base Number (TBN).

An easy to read digital display provides instructions and test results with a five year (10 000 tests) battery life and built-in memory for recording previous test results. The Test Cell is capable of performing both test parameters in a single cell. Reagents are provided in the kit.

Details

- Test time: 2 to 3 minutes
- Memory: Previous test, plus five oils
- Battery life: Five years (10 000 tests)

Test Cell

Water in oil

Helps to maintain the equipment by protecting it from damage caused by water in oil.

- Prevent corrosion, cavitations or machinery failure by detecting water in oil, before any damage occurs
- Minimize instability of additive packages and damaging microbe growth by monitoring your oil
- Fully portable for use on-board or in the field, test cells are extremely robust, durable, and easy to use

Details

- Range: 0.02 to 1%, 200 to 10 000 ppm, 0 to 10%, 0 to 20%

Test Cell

Total Base Number

Measuring the Total Base Number provides indication of the oil's alkaline reserve and ability to neutralize acids from combustion. The SKF Advanced bearing analysis kit provides modern digital analysis for fast, accurate results that can be trended. The Test Cell gives a quick indication of Total Base Number depletion in lubricants.

- Avoid fouling within the engine and corrosion of engine components by monitoring the Total Base Number of lubricating oils
- Simple, economical monitoring of lubricants

Details

- Range: 5 to 80 Total Base Number
- Accuracy: Typically ±10% of new oil Total Base Number

Water in lubricants

Water contamination may cause different problems in different types of lubricating oil, although corrosion is always directly associated with water ingress. Whatever the equipment, water can displace the oil at contacting surfaces, reducing the amount of lubrication, and activating surfaces which may themselves act as catalysts for degradation of the oil. Water is an important contaminant in many lube oil systems because of its potential to cause failure via a number of mechanisms.

Total Base Number

Total Base Number is a measure of reserve alkaline additives put into lubricants to neutralize acids, to retard oxidation and corrosion, enhance lubricity, improve viscosity characteristic, and reduce the tendency of sludge buildup. Simply put, it is a test to measure the ability to neutralize corrosive acids that may be formed during normal operation.

Oil formulations of additives vary drastically between oil companies, so the most important analytical parameter is the change in base number when compared to the lubricant when new, or when in service, to the previous sample.