

# SKF Bearing assessment kit

## CMAK 300-SL

A convenient collection of measurement devices for all industrial manufacturing plants.

The basic SKF Bearing assessment kit makes the assessment of bearing condition a simple task for maintenance, operations, reliability, and vibration analysis departments.

### Features

- Check bearing and lubrication condition
- Assessment of overall machine condition

### Multi-parameter machine evaluation with the SKF Bearing assessment kit:

#### SKF Machine Condition Advisor CMAS 100-SL

The SKF Machine Condition Advisor simultaneously measures machine vibration signals and temperature to indicate machine health and bearing condition.

#### SKF Infrared Thermometer CMSS 3000-SL

The heavy duty SKF Infrared Thermometer is a dual laser sighted, non-contact instrument for long range application.

For additional information on the instruments included in the kit, please refer to the previous, respective sections. For technical details on the SKF OilCheck TMEH1, please see the following.

#### SKF OilCheck TMEH1

The SKF OilCheck indicates the degradation and contamination level of oil, and detects increased mechanical wear and loss of the oil's lubricating properties.

- Hand held and user friendly
- Numerical readout to facilitate trending



- Shows changes in oil condition effected by:
  - Water content
  - Fuel contamination
  - Metallic content
  - Oxidation

The usual contamination found in oils is caused by oxidation and acid build up, which occur during normal machinery operation and typically show up as a gradual increase in the oil's "dielectric constant" readings over a period of time. In addition, excessive wear or mechanical failure may cause other contaminants to occur (i.e., dirt, soot, fuel, water, antifreeze, metal particles, etc.). These contaminants also cause an increase in the oil's dielectric constant.

The SKF OilCheck detects and measures change in an oil's dielectric constant by comparing measurements obtained from new and used oil samples. Measuring and trending changes to an oil's dielectric constant level provides information that helps optimize intervals between oil changes, and helps detect increased mechanical wear and loss of the oil's lubricating properties.

#### Technical Data

- Suitable oil types: Mineral and synthetic oils
- Repeatability: Better than 5%
- Readout: Green/red grading, numerical value (0 to 100)
- Battery: 9 V Alkaline IEC 6LR61
- Battery lifetime: > 150 hours or 3 000 tests
- Dimensions:
  - Width: 95 mm (3.7 in.)
  - Height: 250 mm (9.8 in.)
  - Depth: 32 mm (1.3 in.)

For additional information on the instruments included in the kit, please refer to the previous, respective sections.



#### Note:

The SKF OilCheck is not an analytical instrument. It is an instrument to detect changes in the oil condition only. The visual and numerical readouts provide a guide and enable trending of the comparative readings of a good oil to a used oil of the same type and brand.

#### Carrying case

The instruments are packaged in a light, durable aluminium carrying case for industrial environment.

- Weight: 2,6 kg (5.7 lb.) case only
- Dimensions:
  - Length: 450 mm (18 in.)
  - Width: 330 mm (13 in.)
  - Depth: 150 mm (6 in.)
- Color: Anodized and color dyed exterior finish (Blue)

### Ordering information

#### SKF Bearing assessment kit [CMAK 300-SL] includes:

- SKF Machine Condition Advisor [CMAS 100-SL]
- SKF Infrared Thermometer [CMSS 3000-SL]
- SKF OilCheck [TMEH1]

SKF Machine  
Condition Advisor



SKF Infrared  
Thermometer



Carrying case

