

SKF Grease Test Kit TKGT 1

Portable grease analysis kit for use in the field

Lubricant analysis is a vital part of a predictive maintenance strategy. However, until now, this has been almost completely related with oils, despite the fact that around 80% of bearings are lubricated with grease.

Tribology knowledge and years of research have allowed SKF to develop a complete methodology to assess greases condition directly in the field.



The SKF Grease Test Kit TKGT 1 has been designed to properly apply this methodology. By using it, three different tests can be performed: consistency (patent applied for), oil bleeding properties and contamination. This allows the user to have a good understanding of the grease condition and take decisions directly in the field. The SKF TKGT 1 includes guidelines for properly interpreting the results of the tests.

For fresh greases SKF TKGT 1 can help to establish the remaining shelf life of the grease, as well as assessing the consistency of the quality level among different production batches. When testing used greases, the results will help the user to evaluate such things as: the suitability of the tested grease for the application, the accuracy of relubrication intervals, and the possible sources when contamination occurs.

Features and benefits

Main benefits of grease analysis are:

- Grease relubrication intervals can be adjusted according to real conditions
- Grease quality can be evaluated to detect possible unacceptable deviations from batch to batch
- Greases performance can be assessed, allowing verification of the suitability of a certain grease for a specific application.
- Helps in the prevention of damage due to underperforming lubricant greases
- More information can be provided for root cause analyses

Main benefits of TKGT 1 are:

- Portable kit, designed to be used directly in the field
- No special training required to perform the tests
- No harmful chemicals required
- The methodology included with the kit brings SKF lubrication knowledge to the customer in order to properly understand the results of every test.
- Small sample size required. Just 0,5 grams of grease are needed to perform all the tests.
- Quick assessment tool allowing taking decisions directly in the field.



Re-lubrication



Technical data

Designation	TKGT 1		
Parts	Components	Quantity	Specifications
Sampling tools	Sampling syringe	1	Polypropylene
	Sampling tube	1	PTFE, length approx. 1m
	Permanent marker	1	Black
	Sampling containers	10	35 ml polyethylene
	Gloves	10 pairs	Grease resistant nitrile (synthetic rubber), powder free, size XL, colour blue
	Disposable spatulas	1	Set of 25
	250 mm stainless steel spatula	1	Stainless steel
	150 mm stainless steel spatula	1	Stainless steel
	Scissors	1	Stainless steel
	Consistency test (Patent applied for)	Housing	1
Weight		1	Stainless steel
Mask		1	Plexiglas
Glass plates		4	
Oil bleeding test	USB heater	1	2.5 W - 5 V.
	USB/220/110V adaptor	1	Universal (EU, US, UK, Australia) to USB
	Paper pack	1	Contains 50 sheets
	Ruler	1	Aluminium graduated 0.5 mm
Contamination test	Pocket microscope	1	60 - 100x with light
	AAA batteries	2	AAA
Carrying case	CD	1	Contains instructions for use, report template, and consistency test scale
	Carrying case	1	Dimensions: 463 × 373 × 108 mm (18.2 × 14.7 × 4.25 in)

Consistency



Oil bleeding characteristics



Contamination evaluation



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