

Portable TF-Detector

Very sensitive magnetic particle detector in liquid with high resolution

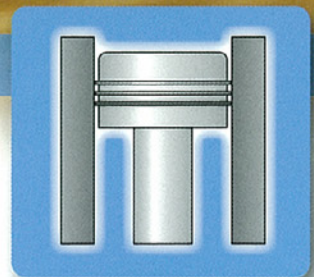
TF-Detector measures magnetic particle content in liquid with high sensitivity of less than 20ppm and resolution of 5ppm.

TF-Detector makes it possible to detect the sign of damage on friction surfaces of various machinery at an very early stage and thus to prevent severe surface damage and save operation and maintenance costs.

Application example 1

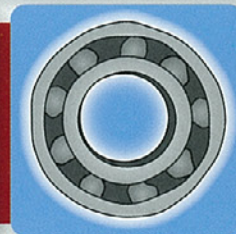
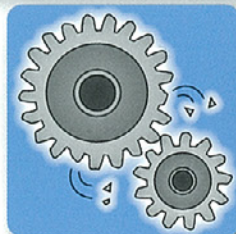
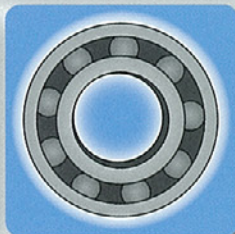
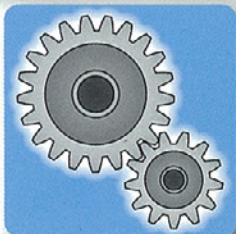
Two stroke low speed engine

You can monitor the surface condition of cylinder liner and piston ring through periodical measurement of friction powder content in cylinder oil drain by TF-Detector and take necessary steps to prevent damage on the cylinder liner and piston ring way before it really occurs. TF-Detector helps you materialize the optimum feeding of cylinder oil.



Application example 2

Roller bearing, Gear etc,

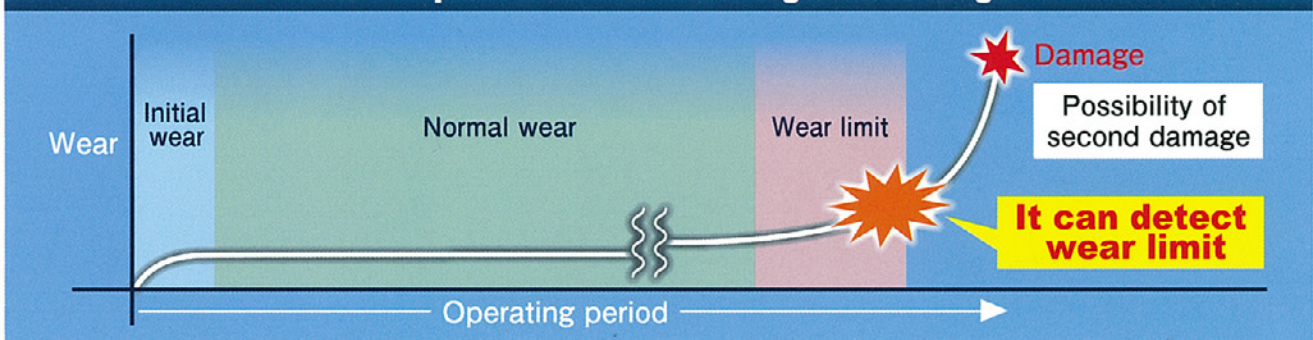


Damage
↓
Machinery must be stopped and repaired.

If apply "Portable TF-Detector"... You can detect sign before damage!

Roller bearings and gears which receive heavy load with friction are good examples of machinery to be protected by early detection of the sign of damage in the drain of lubricating oil. TF-Detector is ideal for such detection.

General procedure for wearing and damage.

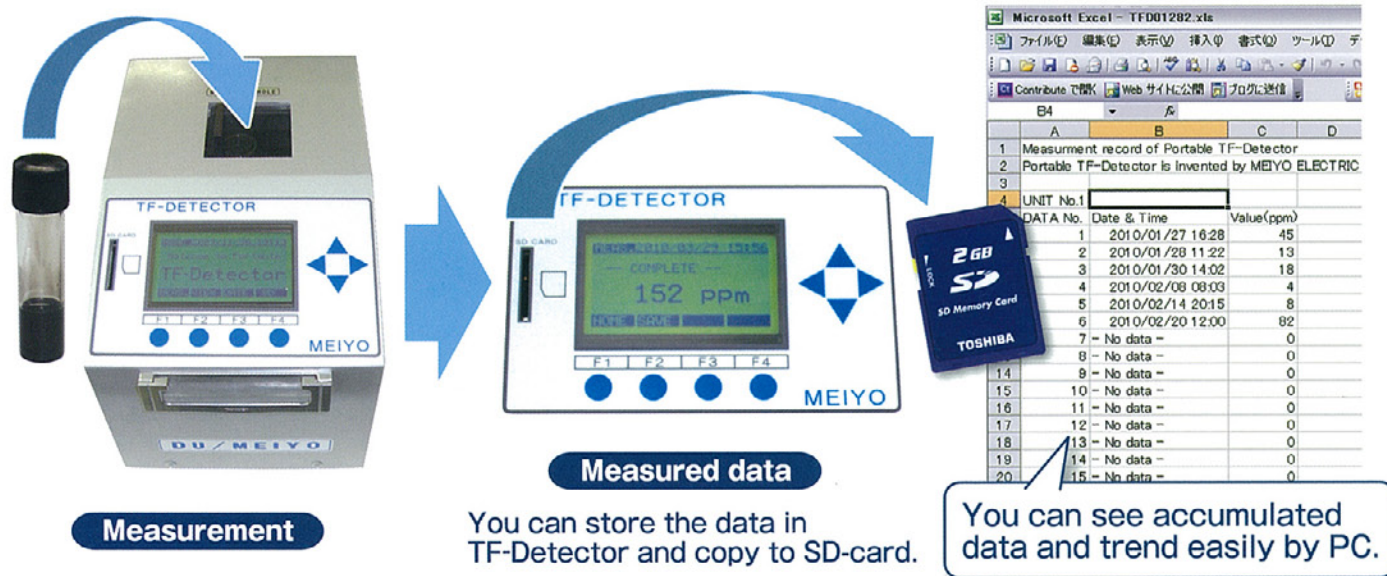


Portable TF-Detector

Easy operation as 1-2-3

1. Sample small amount of oil in glass tube.
2. Set glass tube to TF-Detector.
3. Press Meas.button, then TF-Detector shows magnetic particle density in 'ppm' within 20 seconds.

If you want, you can save the measurement data with time by pressing [SAVE] button. Portable TF-Detector has data memory for 480 cases (24 unit x 20 data), and you can copy the data to SD-card for PC.



Measurement

Measured data

You can store the data in TF-Detector and copy to SD-card.

You can see accumulated data and trend easily by PC.

Specification for Portable TF-Detector

Item	Specification	Note
Range	0ppm ~ 500ppm	We can prepare other range.
Temperature	0°C ~ 60°C	
Electric power	max.50W	
Electric source	AC100V (50/60Hz)	We can prepare other specification.
Resolution	5ppm	
Supply scope	Glass tube 15sets	
	Calibration kit 0ppm, 250ppm 1/each	

※There is possibility to change specification without notice.

TF-Detector has been developed jointly by Diesel United and Meiyō Electric.
We have filed patents for new technologies of TF-Detector.



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