

Portable TF-Detector

Very sensitive magnetic particle detector with high resolution.

It is developed by IHI Power Systems Co., Ltd. and MEIYO ELECTRIC CO.,LTD.



High sensitivity and resolution

TF-Detector examine magnetic particles of a size down to a few micro-meters with resolution of less than 5ppm. So, you can find out abnormal wear at very early stage.

Typical application to two stroke low speed engine

You can monitor piston running condition through periodical measurement of friction powder content in cylinder drain oil by TF-Detector, and then,

- You can save cylinder oil consumption by optimized feed rate setting according to piston running condition.
- You can catch a foretaste of abnormal piston running condition, and then you can take actions to avoid serious damage at very early stage.



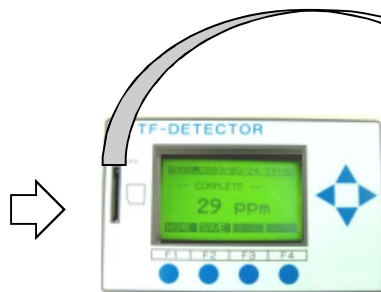
Easy operation as 1-2-3

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

If you want, you can save the measurement data with date and time by pressing [SAVE] button. Portable TF-Detector has memory for 480 data (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.

DATA No.	Date & Time	Value(ppm)
1	2009/10/17 9:41	7
2	2009/10/17 9:42	8
3	2009/10/17 9:43	8
4	2009/10/17 9:44	8
5	2009/10/17 9:44	35
6	2009/10/17 9:45	35
7	2009/10/17 9:45	35
8	2009/10/17 9:46	460
9	2009/10/17 9:46	459
10	2009/10/17 9:47	460
11	2009/10/17 9:47	459
12	2009/10/17 9:48	459
13	2009/10/17 9:48	0
14	No data -	0
15	No data -	0

You can see accumulated data and trend easily by PC.

IPS and MEIYO filed an application of patent for new technologies of TF-Detector.



IHI Power Systems Co., Ltd.