

The main indicator for wear in 2 stroke diesel engines remains iron. Testing cylinder drain oil for iron content and residual base number (BN) is a very commonly applied technique for screening drain oil samples on-board seagoing vessels. CM Technologies now introduces a complete new technology for testing Iron onsite. The new & improved Iron Test has become much faster, easier and much more accurate than anything else currently available.

The newly patented CMT **Iron Test II** is based on a simple two component wet chemistry which is tested in an electronic photometer. An electric shaker will assist the user to perform the test.

The simple test procedure just takes 3 minutes to achieve an accurate iron test result. For higher iron readings the user can do a second test to test for corrosive iron only. This will provide the values for total, corrosive and abrasive iron.



Iron glass Vial after filtration

### Your Benefits:

- Greatly increased repeatability and accuracy (+/- 20 ppm)
- Differentiation between corrosive and abrasive iron
- No soot dependence of the test allows for most reliable results
- Fastest onsite wet chemistry test
- Intuitive usage due to touch screen functionality
- Large memory for storing data
- Easy trending thanks to a high resolution graphic display
- Simple USB data transfer to a PC
- No hazardous chemicals involved

Monitoring of the iron content in the cylinder drain oil and the launching of remedial actions in due time can help to avoid cold corrosion and unnecessary abrasive wear in the cylinder liner.

Together with the CMT **CDO BN Test Kit** the **Electronic Iron Analysis Kit** allows to monitor the most important parameters of the drain oil on site providing the user with the necessary information to optimize the feed rate of the cylinder oil and at the same time to avoid unnecessary wear of the individual cylinder liners. Both kits are also available as a combined CDO Test Kit.

CMT also offers a complete Cylinder Drain Oil Service which includes the onsite **CDO Test Kit** and a periodical onshore independent laboratory oil analysis providing complete results about wear, contamination, oil condition and additives together with a diagnostic statement from our tribology and engine experts.

### Ordering Information

OTK-CT-11228

#### Electronic Iron II SM Test Kit

Range:	50 - 1500 ppm
Corrosive iron:	0 - 100 % of total
Abrasive iron:	0 - 100 % of total
Accuracy:	+/- 20 ppm
Repeatability:	10 ppm
Test Time (ave.):	3 min. per Test
No. of initial Tests:	50
Memory:	last 20 reading / cyl. 14 cylinders
Reagents:	non hazardous

SW-C00002-CT

#### Download Option Console

License for data download

OTS-CT-13034

#### Iron II Test Reagent Pack (Version II)

No. of Tests:	50 drain oil samples
Reagents:	non hazardous

OTS-CT-13024

#### Iron Test Reagent Pack (Version I)

No. of Tests:	50
Reagents:	non hazardous

OTS-CT-13029

#### Glass Vial Consum. Pack (for S/N > 400)

Glass Vials with cap: 100

OTR-CT-12010

#### Vial Cleaner

Size	250 ml
Reagent:	non hazardous

OTS-CT-13025

#### Iron Test Consumables Pack (Version I)

Glass Tubes (blue caps):	24
Set of Syringes	



Iron Console