



CT10 – Automated Steel Test Rod Corrosion Reader

Methods:

ASTM D665, D7548
NACE TM0172
IP 135
ISO 7120
JIS K2510
GOST 19199



- ▶ Quick, accurate and objective rating
- ▶ Proven correlation with visual rating (Comparative study, rating NACE TM0172)
- ▶ Automatic specimen diameter verification
- ▶ Compact design, robust construction
- ▶ Image saved in color
- ▶ Every test is fully documented and traceable

The ASTM D665 method is used to evaluate the ability of inhibited oils to aid in preventing the corrosion of ferrous metals in presence of water. The NACE TM0172 method is used to determine the corrosiveness of petroleum products (gasolines and other distillates) before transportation through pipelines.

The CT10 precisely measures the Spindle corrosion according to the selected standard, after being exposed in the oxidation bath. The CT10 strictly follows the test method removing the subjectivity inherent to the manual test and significantly improving repeatability and reproducibility with a final evaluation which eliminates disputes between shipper and receiver of the product.

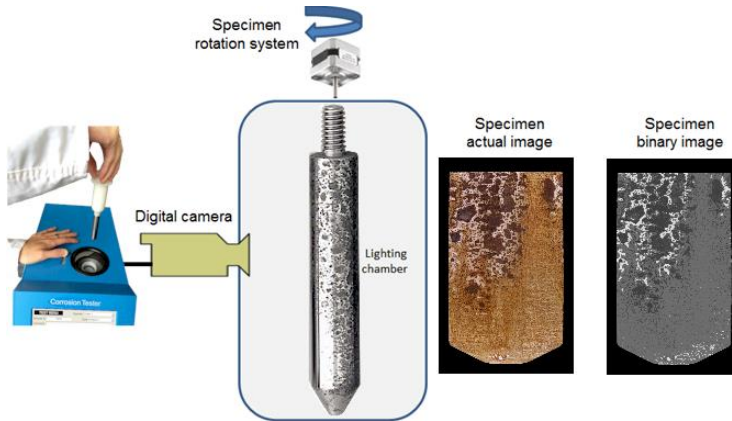
Date	Mon, Nov 23, 2020 10:12:03	Operator	AD Systems
Sample ID	OIL	Type	Product 1
Comment			
Corrosion (%)	80.88	Binary Image	
Rating	Severe Rusting		
Specimen diameter	12.5 mm		
Test Conditions			
Standard	D665 Proc A		
Temperature	60 °C		
Duration	240 mn		
Additional Result Information			
CT10 N°	1		
Software version	1.0.3.698		
Status			



POWERED by INNOVATION

Principle of Operation

A new instrumental approach for corrosion rating based on a homogeneous lighting source, CCD camera and specimen rotation system has been developed by AD Systems. The innovative CT10 instrument images the whole surface of the specimen by rotating the rod. The exact percentage of corroded area is accurately determined by a specially designed application software and then translated into rating according to selected method. A detailed test report including rating and spindle diameter is ready in less than 5 minutes. The operation is simple and straightforward.



The CT10 performs an objective and accurate rating of the test specimen

Ordering information

AA230-001	CT 10 – Corrosion Reader Delivered ready for operation
-----------	-----------------------------------------------------------

Technical specifications

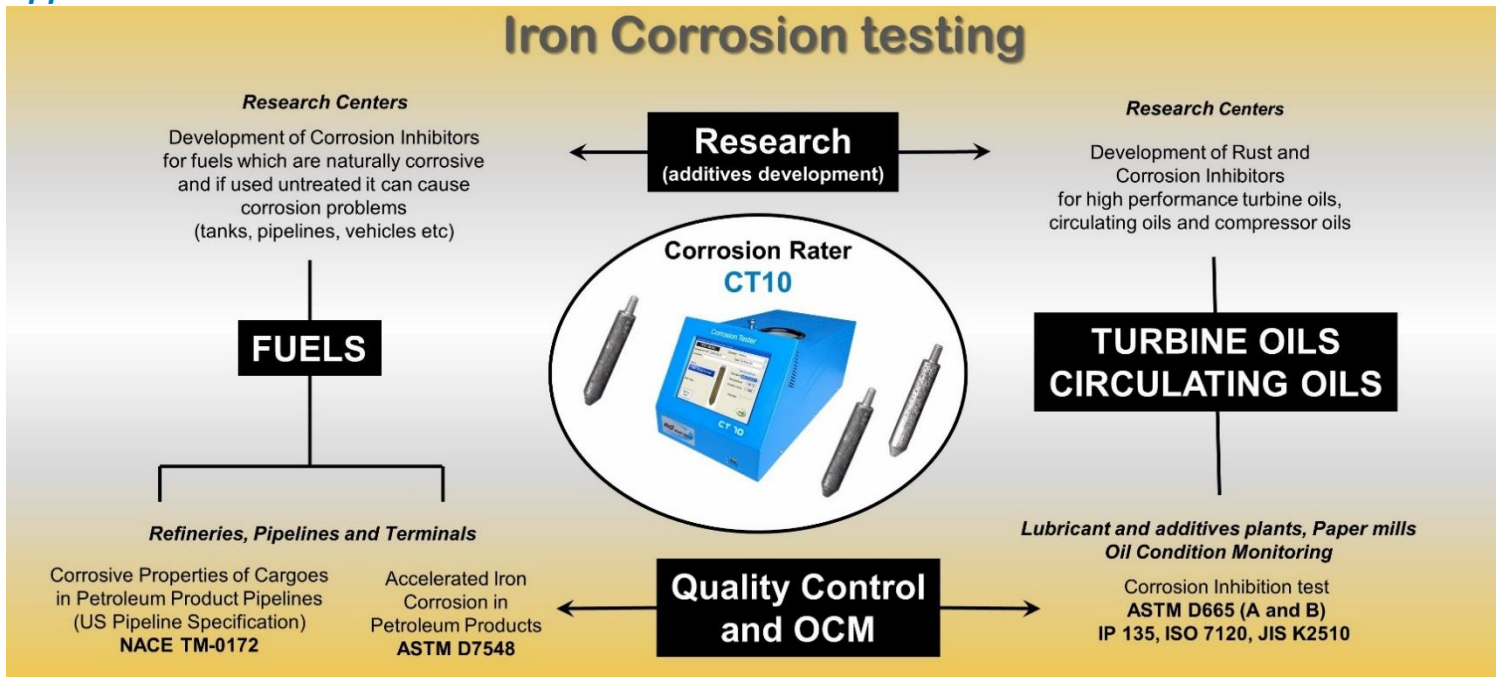
Test method	ASTM D665, D7548, NACE TM0172, IP 135, ISO 7120, JIS K2510, GOST 19199
Corrosion range	In percentage: 0.00% to 100.00% According to the test method: A, B++, B+, B, C, D, and E
Resolution	0.01% Spindle diameter 0.1mm
Interface	8" full-color touch screen
Image Size and resolution	1,600,000 pixels 510 PPI
Language	English, French, Russian
Results storage	Database, USB stick, LAN Capacity only limited by external device
Communication	2 x USB 2.0, Ethernet port
Printing	Graphic printer (optional)
Weight	10 kg

Operation conditions

Operation	+15°C to +30°C Humidity : 10 to 65% RHL, non-condensing
Power supply	100/240V – 50/60 Hz – 50W

We reserve the right to alter specifications without notification

Applications



Your local distributor:

For additional information:

AD Systems

P.A. Portes de la Suisse Normande, Allée de Cindais
14320 Saint André sur Orne - France

+33 (0)2 31 75 02 68

Email: sales@adsystems-sa.com

www.adsystems-sa.com

