

PrimeLab 2.0 Iron-in-Oil

Add. Shake. Wait.



Test kit for determining iron-in-oil concentration in lubricants, available as a standalone solution and/or for use in combination with the photometric method ID 149.



Iron in Oil test.
For easy to obtain results and errorfree handling.



No filtering, no cumbersome measuring.



Visual comparison or digital and precise measurement.



No error-prone chemical mixing: chemicals come in tablets and preset vials

Description

Iron-in-Oil Reagent Kit

For the determination of iron in oil, measuring from 10 ppm to 450 ppm.

The analysis is fast, accurate, and user-friendly. Using pre-filled cuvettes in combination with a single reagent tablet, results are obtained in just three simple steps – with no complex sample preparation required.

Results can be evaluated either by visual color comparison or, for higher precision, using the PrimeLab 2.0 photometer.

This method is ideal for on-site applications, making it perfect for routine monitoring of lubricating and hydraulic oils.

Measures **total iron**, not only corrosive iron. With magnet, abrasive iron can also be measured separately.



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Iron-in-Oil Kit

Photometer

Item-Code	Kit
5151	The PrimeLab 2.0 Multitest Photometer Starter-Kit contains: 1 x Grey plastic carrying-case with foam insert 1 x PrimeLab 2.0 Multitest Photometer 1 x Light shield (for 16mm and 1ml vials as well as check-standards) 1 x 16mm vial adapter (built-in; exchangeable) 4 x 1ml plastic syringe (graduated) 1 x Microfibre cleaning cloth for vials 1 x Charger with cable (USB-Type-C)

Iron-in-Oil Reagent Kit

Item-Code	Kit
0000	50x pre-filled vials 50x Iron Test Tablets 4x 1mL Syringes 50x Sticker for labelling the vials 1x Manual incl. comparison table

Reagents (these methods are activated on the included PrimeLab 2.0)

Item-Code	Parameter	Measurement Range	Type Of Reagent
0000	Iron in Oil	0-450 mg/L Fe	Preset + tablets



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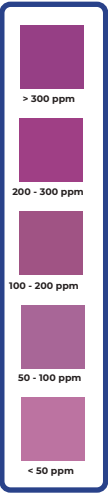


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> 300 ppm

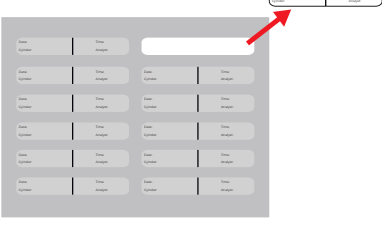
200 - 300 ppm

100 - 200 ppm

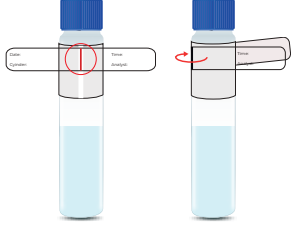
50 - 100 ppm

< 50 ppm

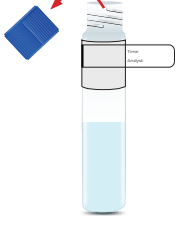
1 Complete sticker



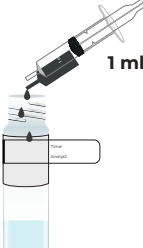
2 Add sticker to cuvette



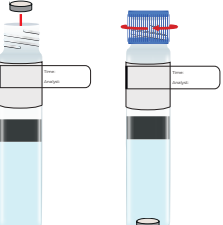
3 Open cuvette



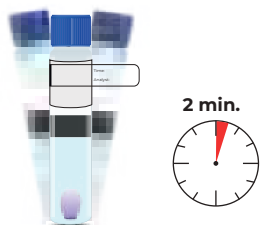
4 Inject 1 ml sample



5 Insert Iron Test tablet and close the cuvette



6 Shake strongly until tablet is dissolved



2 min.

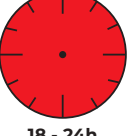
7 Store in box and wait

Visual



3h

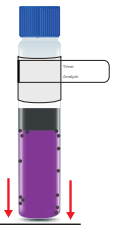
Photometer



18 - 24h

8 ! Attention !

When bubbles visible, tap bottom carefully on horizontal surface



9 Compare with color scale or corresponding test device*



*Follow the Step-by-step instructions on the test device from here



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Iron-in-oil 0 - 450 mg/l (Fe^{2+})



Measurement procedure

- 1 Prepare 1...2...3 Iron-in-Oil cuvettes (16mm). Label one as a ZERO cuvette.
- 2 Place the ZERO cuvette in the photometer.
- 3 Put on the lightshield.
- 4 Start ZERO measurement.
- 5 Remove the lightshield.
- 6 Fill 1ml of your sample(s) in the cuvette(s).
- 7 Add a iron-in-oil tablet to the sample water in the cuvette.
- 8 Shake the cell vigorously for 02:00 minute(s).
- 9 Tap START to start a 02:00 minute(s) countdown.
- 10 Wait for 24 hour(s).
- 11 Do you want to use the last ZERO measurement?
- 12 Insert the sample cuvette in the photometer.
- 13 Put on the lightshield.
- 14 Tap TEST to perform the measurement.
- 15 The measured value is immediately displayed.

Notes:

Be cautious to use exact amounts of sample as well as of reagents as indicated in the test procedure.

Always use new and clean vials and filter equipment. Do NOT re-use.

Keep semi-micro vials free of fingerprints and dirt to avoid misreadings.



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