

High Range PetroFLAG[®] Instructions

READ CAUTION SECTION AND INSTRUCTIONS THOROUGHLY BEFORE PERFORMING TEST. WEAR RUBBER GLOVES AND SAFETY GLASSES.

The procedure requires a standard box of PetroFLAG reagents plus the High Range Dilution Pack (HRD) and a 1-ml pipette.

Each HRD sampling unit contains:

- 1- Colored-capped polypropylene soil tube
- 1- Break-top High Range Extraction Solvent ampule (blue polypropylene top)
- 1- Eppendorf Pipette tip

Materials for each unit are packed inside the polypropylene soil tube.

Directions:*

- 1- Weigh a 10 gram soil sample into a colored-capped polyethylene soil tube. (For soil samples in the percent range, quantities as small as 1 gram may be used.)
- 2- Add the contents of a **High Range Extraction Solvent** ampule to the polypropylene soil tube, replace the cap and shake vigorously for 4 minutes.
- 3- Allow the contents in the tube to settle for 1 minute.
- 4- Attach a new pipette tip to the 1-ml (1000-F1) pipette and transfer 1-ml of the solvent from the first polyethylene soil tube into a second colored-capped polyethylene soil tube from the standard box of PetroFLAG reagents.
- 5- Add the contents of 1 standard extraction solvent ampule to the 1-ml sample, replace the cap and mix well for 1 minute.
- 6- Filter the diluted sample into a developer vial using the standard filter-syringe assembly.
- 7- Shake for 10 seconds and allow the developer vial to stand for 10 minutes.
- 8- Read using the PetroFLAG meter.
- 9- To quantify, multiply the displayed number by the appropriate correction factor. A 10-gram sample provides a 10-fold dilution, the displayed result (ppm) should be multiplied by 10. For a 1-gram sample, the dilution is 100:1 and the multiplier is 100. To report the 1-gram sample result in percent, divide the reading by 100.

*Except for steps 4 and 9, all steps are performed in accordance with the standard PetroFLAG method. Please read the PetroFLAG Users Manual for more details.

The standard response factors with this method may not be applicable due to the deviations from the standard method and the high levels being measured. One should determine the correct response factor by comparing the PetroFLAG results with an appropriate laboratory method and then adjust the response factor to generate more accurate and comparable data.

CAUTION:

WHEN OPENING THE BREAK-TOP AMPULES, DO NOT REMOVE THE PLASTIC SLEEVE FROM THE TOP OF THE AMPULE. THIS CAP IS FOR YOUR PROTECTION, REMOVING IT MAY RESULT IN PERSONAL INJURY.

THE EXTRACTION SOLVENT AND CALIBRATION STANDARD CONTAIN METHANOL AND ARE BOTH FLAMMABLE AND POISONOUS.

WEAR RUBBER GLOVES AND SAFETY GLASSES WHILE PERFORMING TESTS.

DISPOSE OF ALL USED REAGENTS AND SOIL PROPERLY.

KEEP OUT OF THE REACH OF CHILDREN

READ MATERIAL SAFETY DATA SHEETS BEFORE PERFORMING TEST.

MANUFACTURER'S WARRANTY

This kit is warranted to be free of defects in material and workmanship until the expiration date stamped on the box. Manufacturer's sole and exclusive liability under this warranty shall be limited to replacement of any kit that is proved to be defective. Manufacturer shall not be liable for any incidental or consequential damages.

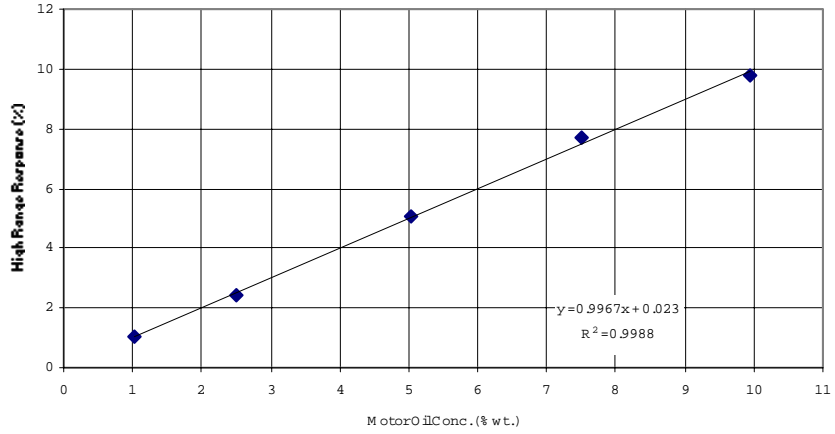
Reliable test results are highly dependent upon the care with which the directions are followed and, consequently, cannot be guaranteed.

This kit was manufactured by:

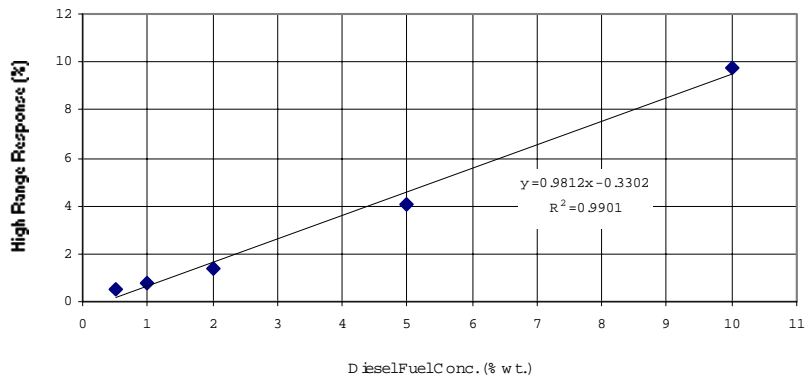
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1% to 10% Motor Oil on High Range PetroFLAG



0.5% to 10.0% Diesel Fuel Extracted with High Range Solvent Run on the PetroFlag RF=6



PetroFLAG High Range on Soil Spiked With Crude Oil

