






High Frequency Reciprocating Rig

ASTM D6079 Evaluating Diesel Fuel Lubricity


What items do you require to conform to the standard?










The ASTM D6079 specifies the PCS Instruments High Frequency Reciprocating Rig (HFRR) mechanical and control Unit.

HFRR system (PN:HFRR) comprises of:

- * Mechanical test unit with upper and lower specimen holders.
- * Control and data acquisition system pre-loaded with standard test protocols.
- * User manual
- * Main temperature probe
- * Tool set
- * Calibration plugs
- * Weight hanger cord
- * Calibration kit, screw set, weight set



PICTURE OF CAL KIT

(1) Mechanical unit (2) Upper and lower specimen holders (3) weight hanger cord (4) main temperature probe (5) Weight set

(6) Control Unit (7) Tool Set (8) screw set (9) Calibration kit (10) Calibration plugs



A microscope capable of 100x magnification in graduations of 0.1mm and incremented in divisions of 0.01mm divisions. PCS Microscope (P/N HFRMIC) Is metallurgical microscope for with calibrated micro meter stage

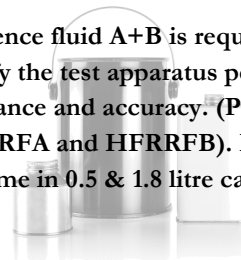
An ultrasonic seamless stainless steel tank is required with adequate capacity and a cleaning power of 40 W or greater. (P/N: HFRBATH)

Ultrasonic bath photo



D6079-11 specifies the use of a microscope with digital camera capable of 100x magnification and resolution should be a minimum of 2048 x 1536 pixels.. PCS wear scar camera (P/N HFRRWS) fits to the top of HFRMIC. The wear scar camera is not compatible with any other microscope.

Reference fluid A+B is required to verify the test apparatus performance and accuracy. (P/N HFRRFA and HFRRFB). Fluids come in 0.5 & 1.8 litre cans)



Recommended consumables for one year testing (500tests)

5 x HFRSSP	2 x HFRSS
1 x HFRT00L	1x HFRWHC
1 x HFRMICLAMP	2X HFRMRTD

Please contact PCS for more information

Please note PCS Instrument is the only specified manufacturer of the HFR Rig and specimens on ASTM D6079. If any other brands are used the test will not conform to this standard.