

High Frequency Reciprocating Rig

ASTM D6079 Evaluating Diesel Fuel Lubricity

What items do you require to conform to the standard?

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The ASTM D6079 specifies the PCS Instruments' High Frequency Reciprocating Rig (HFRR) Mechanical and Control Unit.

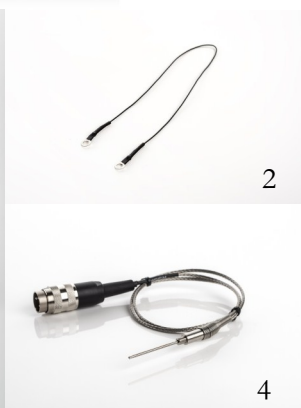
HFRR system (PN:HFRSYS) comprises of:

- * 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
- * Weight hanger cord
- * Calibration kit, screw set, weight set

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(1) Mechanical unit holders (2) Weight hanger cord (3) Weight set (4) Main RTD temperature probe

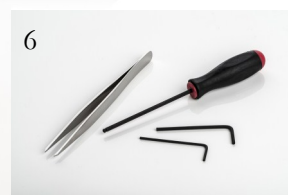


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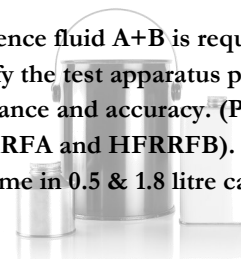
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(5) Control Unit (6) Tool Set (7) Screw Set (8) Upper and lower specimen (9) Calibration Kit (calibration device not pictured)



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

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)



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

Recommended consumables for one year testing (500tests)



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.

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.