



Sample Test Procedure and Daily Operation of Ravenfield BS/C+ HTHS Viscometers

Instructions

1. Turn on the vacuum pump.
2. Clean the measurement chamber and funnel with cleaning solvent while hand-turning the rotor.
3. Extract the cleaning solvent via the funnel using the vacuum pump.
4. Add one funnel full of fresh oil (RL232 or similar).
5. Turn on the heating bath.
6. Wait until instrument has reached operating temperature.
7. Lower rotor onto ball stop using side handle.
8. Check that the rotor turns freely.

Sample Test Procedure

1. From the Main Menu select **B: Measure**.
2. If required, select **A: Ref for Table** and enter the oil ID.
3. Select **C: Continue to Test**.
4. Allow the instrument to make one measurement of the oil.
5. Make a repeat measurement by selecting **D: Repeat** and add one funnel full of the same oil.
6. When the two measurements on the screen agree within 1% select them and record the viscosity value.
7. Select **E: Next Oil**.
8. If the result for RL232 is outside the stated limits, the operator needs to conduct a fresh calibration with all six Newtonian oils as detailed in the calibration guide. If the results are within stated limits then continue with step 9.
9. Repeat steps 3 through 8 until all sample oils are tested.
10. To conform to ASTM D4741 test method, RL232 should be tested after every four unknown oils.

Close Down Procedure

After testing all desired oils, proceed with the close down procedure.

1. Select **E: Next Oil**.
2. Select **B: Ramp Motor Off**. The motor then turns off and the rotor stops turning.
3. Raise the rotor by turning the side handle.
4. Turn off the heating bath.

