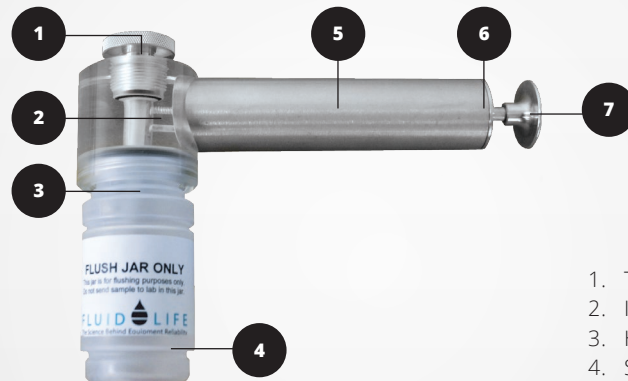


# COOLANT SAMPLING

## USING A SAMPLE PUMP (DROP-TUBE SAMPLING METHOD)



The Fluid Life 38U Sample Pump

1. Tubing Inlet
2. Internal Threads & Tube Canal
3. Head
4. Sample Jar (38mm)
5. Plunger Body
6. End Cap
7. Plunger

The following is a sampling procedure using the Fluid Life 38U Sample Pump. The pump kit comes complete with a 38mm suction pump, some heat resistant tubing and a flush jar. This procedure can be used for coolant systems without fixed sampling hardware installed where radiator or pressure cap access is available.

1. Take sample only when the engine is turned off and cool. Remove the radiator or pressure cap slowly. **(CAUTION: Coolant system is still under pressure when it is hot.)**
2. Wipe excess contamination from sample area.
3. To use the 38mm Sample Pump, screw a sample jar onto the bottom of the pump head.
4. Insert a clean piece of plastic tubing through the top of the pump only until it is protruding into the sample jar by 1 - 2 cm (0.5"). Tighten the aluminum nut to seal the unit.
5. Place the free end of the tubing into the reservoir that you are sampling through the radiator or pressure cap into the coolant. Take care not to sample directly on the bottom of the sump to avoid sampling any contaminants which may have settled there.
6. Two to three strokes of the plunger are all that are usually required to begin drawing a sample. Try to keep the pump level and be careful not to draw the coolant into the plunger

body or overfill the jar, as this will require disassembling and cleaning of the pump.

7. Before taking the sample, attach flush jar and extract coolant. (Minimum flush volume: 15ml or total volume of sample tube) This flushing procedure removes debris or stagnant coolant and ensures a more representative sample. Detach flush jar, discard coolant, retain flush jar for future use.
8. Attach sample jar and collect sample. As the coolant level in the jar nears the top, loosen the jar to break the vacuum and stop the flow. Avoid overfilling the sample jar. Fill sample jar to or above the fill line but below the threads of the jar. Seal the jar tightly, wipe clean.
9. Pre-label or label sample jar immediately after filling to avoid mix-ups. Make sure jars are labelled with full sample details (i.e. unit number, component type, date, kilometers/service hours on unit/component/coolant, coolant manufacturer and product name, repairs/service during drain interval, coolant changed Y/N).
10. Ship the sample to the appropriate Fluid Life location immediately. Do not stockpile samples for shipping.

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