



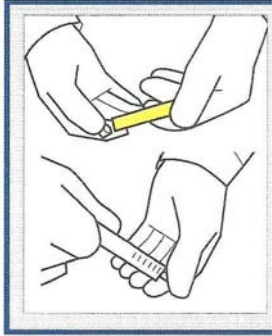
Shell 'Water Detector

Procedure in 8 basic Steps



1 Check the equipment

- II Detector capsule: examine the bottom of the tube to ensure the capsules have not passed their expiry date.
- III 5 ml syringe (0.2 fl oz) – the syringe operates freely and the nozzle is not damaged
- II Glass jar or closed circuit sample: ensure the sample jar is clean and free from water



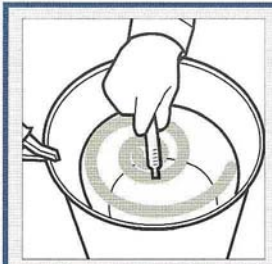
2 Fit the capsule

- II Remove a capsule from the tube. Handle carefully and do not touch or allow any moisture onto the yellow paper of the capsule. II Close the tube to avoid contamination of other capsules at ambient humidity.
- III Check that the paper is uniformly yellow, if it is not, discard and use another capsule
- III Fit the capsule to the syringe with the plunger in the depressed position



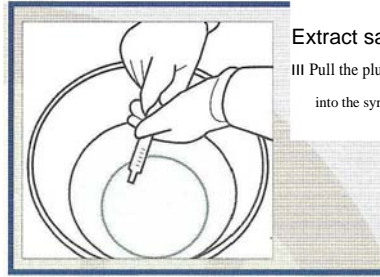
3 Draw a sample

- II Use the sample from the visual check you have just completed
- II If you do not already have the sample, follow the task breakdown procedures from the Visual Clear and Bright Procedure



4 Immerse the capsule in the sample

- III Immerse the capsule and approximately half of the syringe using a circular motion into the sample. Ensure you are using gloves that are impervious to fuel



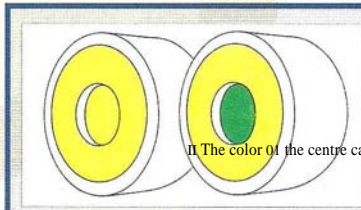
5 Extract sample

- III Pull the plunger to draw 5 ml of fuel sample into the syringe



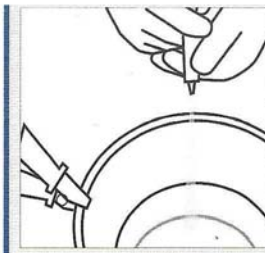
6 Withdraw the syringe & examine

- II Withdraw the syringe from the fuel and examine the capsule immediately for any change of color in the centre wetted area of the capsule



Results

- III If there is no color change, the sample is acceptable
- II The color of the centre can change to slight yellow/green at very low dispersed water concentrations with the change to green becoming progressively more noticeable with increasing water content. II A few green speckles or a slight change in color would be recorded as a "trace", a distinct color change would be recorded as "suspended water".
- II If there is any color change in the capsule, re-sample and re-test until a negative water result is obtained.



After sampling

- III Dispose of the used capsule safely. It can only be used ONCE.
- III Empty the contents of the syringe back into the sample container and return into recovery tank
- II Complete the documentation