

# CATALYTIC FINES TEST KIT

## User Instructions

### User instructions for the Catalytic Fines Test Kit

#### Content of Kit

Centrifuge and Power Supply	Pipettes (25)
Reagent Alpha	Syringes (25)
Sample Preparations (25)	Centrifuge vials (50)
Safety Goggles and Gloves	



#### Notes

NOTE: Read all instructions before beginning test.

NOTE: The centrifuge must be evenly loaded in order to operate safely. Never operate the centrifuge if an odd number of samples have been loaded. If only two samples are loaded into the centrifuge, they should be positioned opposite each other, as shown in the picture below.

NOTE: Make sure that any labelling applied to the sample tubes does not extend below the 1 ml

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### Method

1. Ensure the centrifuge speed is set to "F" (the speed switch can be found on the bottom of the centrifuge). Plug the centrifuge in, but do not turn it on yet.
2. Add *Reagent Alpha* up to the first graduation line (0.5ml) on two sample tubes. Insert each sample tube into the dedicated holder on the centrifuge.



3. Completely fill a syringe with *HFO* by drawing back the plunger until it reaches the stop (*HFO* is very viscous and will flow slowly. Do not draw back the plunger too vigorously, or air bubbles will be introduced) If necessary, clean the outside of the syringe.
4. Unscrew the cap from one of the *Cat Fines Sample Preparation* bottles and add all of the *HFO* from the syringe.
5. Replace the cap and shake the bottle vigorously for 3 minutes.



6. Remove the cap and use a pipette to extract some of the *Cat Fines Sample Preparation* mixture.
7. Remove one of the sample tubes from the holder and gently lower the pipette into the sample tube.
8. Once the tip of the pipette is just above *Reagent Alpha* in the sample tube, very slowly begin adding the *Cat Fines Sample Preparation*.



9. Continue adding the *Cat Fines Sample Preparation*, refilling the pipette as necessary, until the 5 ml graduation is reached.
10. Push home the cap on the tube fully, mark the sample tube to appropriately identify it and return it

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to any position in the centrifuge holder.

11. Replace the cap on the *Cat Fines Sample Preparation* mixture and shake it again for 10 seconds.
12. Repeat steps 7 to 10 using the second of the two sample tubes containing *Reagent Alpha*. The same pipette can be used to do this.



13. Push home the cap on the second sample tube, label the sample tube

and place it in the position directly opposite the first sample tube.

14. Use the timer on the centrifuge to spin the samples for 15 minutes (push timer down to activate). If the centrifuge does not activate, check that the switch on the back of the unit is set to "ON" and that the centrifuge lid is firmly shut.



15. Use the accompanying pictures to decide whether the *HFO* has significant (> 50 ppm) cat fine contamination.

