

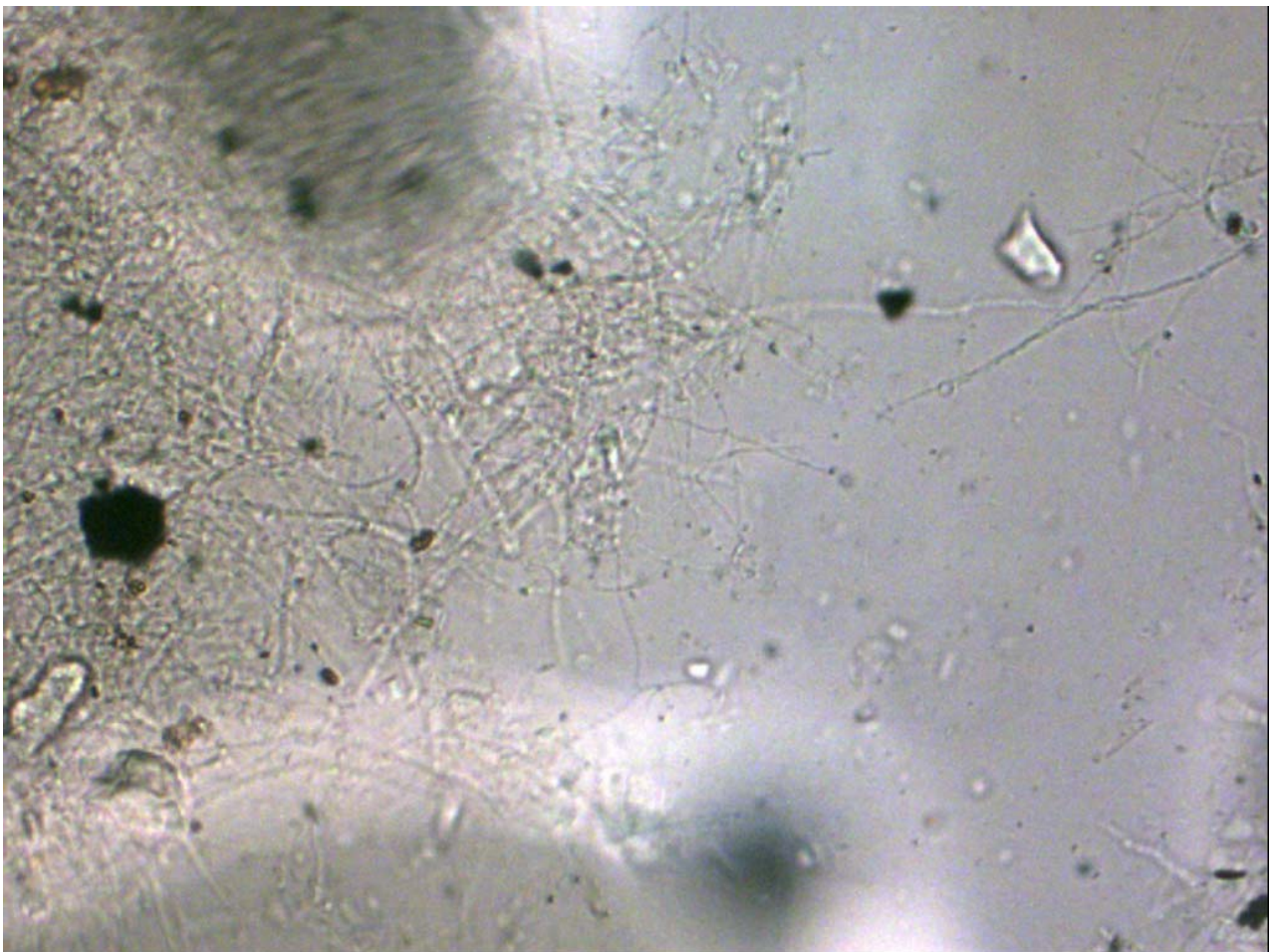


<b>Client:</b>	-		
<b>Sample Ref:</b>	-	<b>EXPLUBE Ref:</b>	15066/1
<b>Date Received:</b>	10 July 2007	<b>Date Reported:</b>	20 July 2007
<b>Sample Description:</b>	DATE: 6/7/07 TAKEN BY: CR/GV, DETAILS/SOURCE: - TANK SAMPLE, S CODE: 8022A		

Examination	Observation		
Visual	Approx. 200 ml of slightly hazy, dark yellow fuel, with a moderate amount of settled and suspended white and brown floccose particulate.		
Microscope	Material from the bottom of the sample consisted of fungal clumps with entrained amorphous particulate. Bacterial sized particulate was visible, although this was not clearly identifiable as microbial. (SEE PHOTOGRAPH)		
Determinant		Result	Method *
Viable Micro-organisms in Fuel Phase	Total Count	<4000 cfu/litre	MicrobMonitor <sup>2</sup>
	Bacteria	1900 cfu/litre**	IP385/99
	Yeasts	<100 cfu/litre	
	Moulds	100 cfu/litre**	
Comments	* Full details of procedures can be provided on request ** Number of colonies counted was <20; hence accuracy and precision may be low.		

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Floccose material from bottom of the sample.



100µm

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<p>Interpretations, opinions and recommendations related to this analysis are offered in good faith and based on our best technical interpretation of information made available to us. There may, however, be factors of which we are unaware which could influence the appropriateness and validity of the interpretation and/or recommendations made. The results only relate to the samples analysed and not necessarily to other product or material in the system sampled. It is in the nature of microbiology that there may be micro-organisms present which are not detected by the test procedures employed. Expresslube (UK) Ltd. cannot be held liable for any consequences arising from the use of the interpretation and recommendations below.</p>				

This fuel sample was extensively contaminated with fungal biomass. However, no significant viable (live) fungal contamination was detected and we suspect this sample has been treated with a fuel biocide. A few viable bacteria were detected; these were *Bacillus* species, a type capable of surviving biocide treatment due their ability to produce resistant spores.

We suspect the fungal biomass could result in significant operational problems, such as filter plugging and fuel starvation in vehicles using the fuel.

The fuel is probably unfit for use unless the biomass can be removed by filtration or centrifugation, then a decision should be made if the fuel would benefit the continued use of a fuel additive.