

# UNISERVICE/TURKIYE VISWA LAB. FUEL ANALYSIS BULTEN # 11

## VISWA LAB. ADDS INSTRUMENTS TO STAY AT CUTTING EDGE OF TECHNOLOGY

Already recognized as the “one stop” lab where fuels (mainly) and also lubes, hydraulics and materials are tested to provide a comprehensive service to the customer, Viswa Lab has added more instruments recently to stay at the cutting edge of testing technology.

The first addition is a set of instruments to the Tribology section of the lab that can analyze wear particles for their size, number, morphology, color and other details. Based on this waer particle analysis, it is possible to determine whar phenomena caused the wear in order to identify the problems associated with the machinery or equipment whose lubricating oil is being analyzed. A very detailed, colorful and attractive report is generated with very important information for the customer. The above adds additional features to our existing Lube Oil Analysis Program.

The second piece of instrument is the FUELTECH instrument from Norway and Japan, which determines important combustion properties of the fuel. This instrument simulates a diesel engine cylinder where pressure, tempereture, fuel injection rate, fuel timing etc can be controlled. It is being increasingly realized that CCAI (which is a calculated number based on density and viscosity) is no more a true measure of ignition delay in the cylinder. This is because of the deteriorating quality of bunker fuels and increasing instances of contamination and adulteration in today’s fuels.

The advantage of the FUELTECH instrument is the correct determination of delay period and heat release rate of the fuel. These measurements can be related to the actual engine conditions and suitable adjustments made to obtain optimum power from the fuel. Not only phsycal but also chemical means (through additives) can be used to improve the combustion in available fuel.

VISWA LAB takes pride in announcing that it will be the pioneering lab in the use of these instruments at the cutting edge of technology. Combined with the SAME DAY SERVICE and HIGHEST QUALITY, VISWA LAB offers the best value for money spent on analysis.

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