

ABSTRAK

Hasil pengujian *quick test* dan laboratorium tes, menunjukkan bahwa ada persamaan hasil analisa dimana pada pengujian *quick test* menggunakan kertas uji *whatmen* yang biasanya dipakai sebagai penyaring pada filter oli. Dari hasil pengujian dimana untuk *kinematik viscosity* pada suhu 100 °C untuk *fresh oil* 14.00 cSt dengan kondisi abnormal (uji lab.) dan diameter lingkaran (*quick test*) lebih kecil menunjukkan ada nya penurunan *viscosity*. Kemudian pada pengujian laboratorium menggunakan peralatan standar uji oli dimana dapat dilihat beberapa struktur oli yang sudah mengalami kontaminasi seperti *metal content*, *infrared traces for detection*, *kinematik viscosity* dan *total base number*. Dengan hasil dan kesimpulan yang sama pada *quick test* dan pengujian lab. maka keuntungan menggunakan *quick test* akan bisa mempercepat analisa saat ditemukan masalah di lapangan, kemudian pada pengujian lab. masih diperlukan dalam analisa suatu masalah pada mesin, tetapi hal ini memerlukan waktu yang cukup lama, sehingga metode *quick test* analisis sangat perlu dilakukan saat di lapangan ehingga kesimpulan suatu masalah pada mesin segera bisa di ambil dan sebagai data pembanding, uji lab juga perlu dilakukan untuk akurasi suatu kesimpulan.

Kata Kunci : Quick Test, Total Base Number, Kinematik Viscosity & Laboratorium Analisis.

ABSTRACTS

The test results of quick tests and laboratory tests, refers that there are similarity in the analysis which the quick test use test paper whatmen that commonly use as a filter on the oil filter. From the test results in which to kinematic viscosity at 100 ° C for fresh oil cSt 14. 00 in abnormal conditions (laboratory test) and the smaller of diameter circle (quick test) was showed decrease in viscosity. Then on laboratory test are using test standard oil equipment in which can be viewed some of the oil structures that have suffered contamination such as metal content, infrared traces for detection, kinematik viscosity and total based number. In the same results and conclusions on the quick test and laboratory test, so the advantages use the quick test will be able to accelerate the analysist when problems was found in the field, then the laboratory test is still needed in the analysis of a problem on the machine, but it was needed a long time, so that the method analyst quick test is very necessary in the field that the conclusion of a problem on a machine can be taken immediately and as the comparative data, laboratory test also need to be made to the accuracy of the conclusions.

Key Words : Quick Test, Total Based Number, Kinematic Viscosity & Laboratory Analysists.