

**Appendix F**  
**Eralytics' Recommendations**  
**for Analyzing Heavy Refinery Liquids**

From Andreas Schwarzmann <schwarzmann@eralytics.com>

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Subject **AW: Address to ship 6 oil**
1/23/2017 8:02 AM

To 'Spinhirne, Jarett P' <spinhirne@mail.utexas.edu>, 'Bob Stamp' <rgstamp@compass-instruments.com>

Cc Kirsten Sinclair Rosselot, 'Torres, Vincent' <vmtorres@mail.utexas.edu>

Jarett,

please find below the vapor pressure results of your residual oil. The sample was measured with the method "Low VP" which is based on ASTM D6378. The Eravap was equipped with the HVM module (high viscosity module – this is for heating the inlet and outlet as well as the tubes to max 70C) which is definitely necessary for such a sample to avoid clogging of the tubes.

The sample must be heated to 80C and introduced into the instrument by a syringe (I used a one way plastic syringe). The plunger must be manually pressed down for sample introduction. The measurement worked fine down to 50C.

It is extremely important to clean the instrument afterwards, Toluene worked fine. Several rinsing cycles are necessary to flush the instrument from the residual oil.

	T[C]	p[kPa]
Residual Oil	80	1,7
Residual Oil	70	0,7
Residual Oil	60	0,3
Residual Oil	50	0,1

Such samples are certainly more laborious than running gasoline due to the necessary heating and cleaning. But this is the nature of the sample and necessary to get good results. If you have further questions please let me know.

Thanks

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