

Report No. RT-GEO-0129-ENZYME
Date: 09/05/2012
 Order No. H12-LT-2 VERSION 1
 Quote No. N/A
 24/04/2012
 Total Cost for Analysis £1184

Comparison of Oil Properties – Xmile Enzyme Treatment of Oil

Sample Summary

Sample Number(s)	Sample Description	Customer Reference
GEO-219086	NS OIL	
GEO-219693	A-210886 INITIAL OIL	

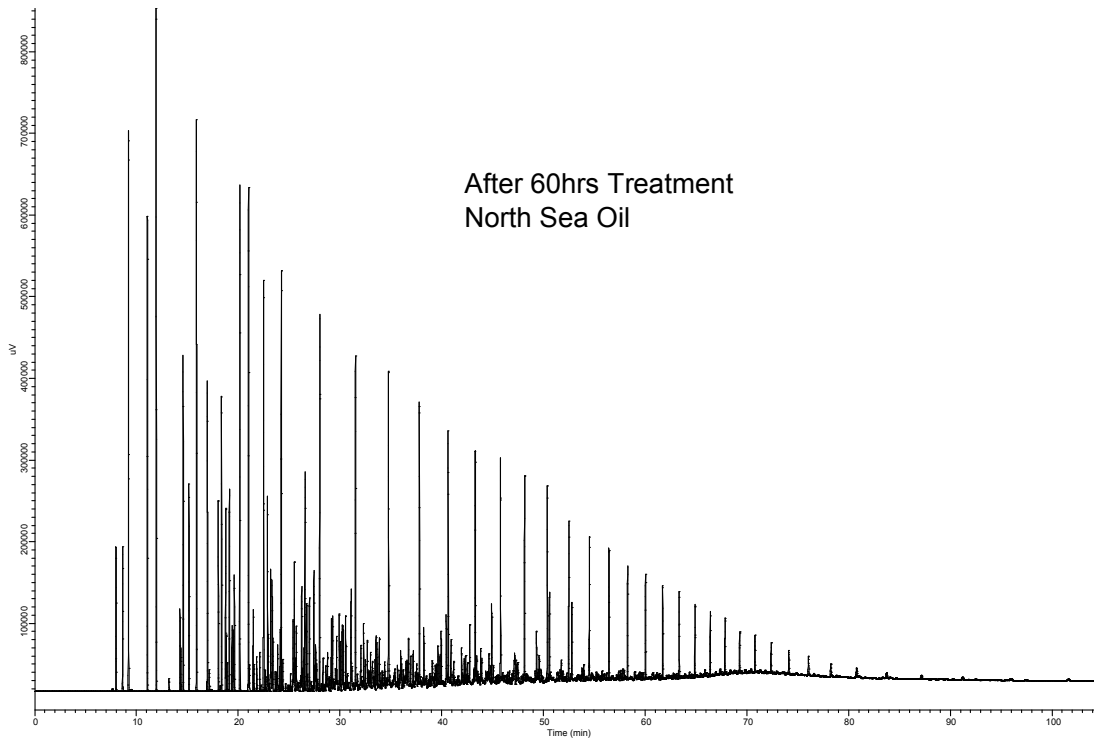
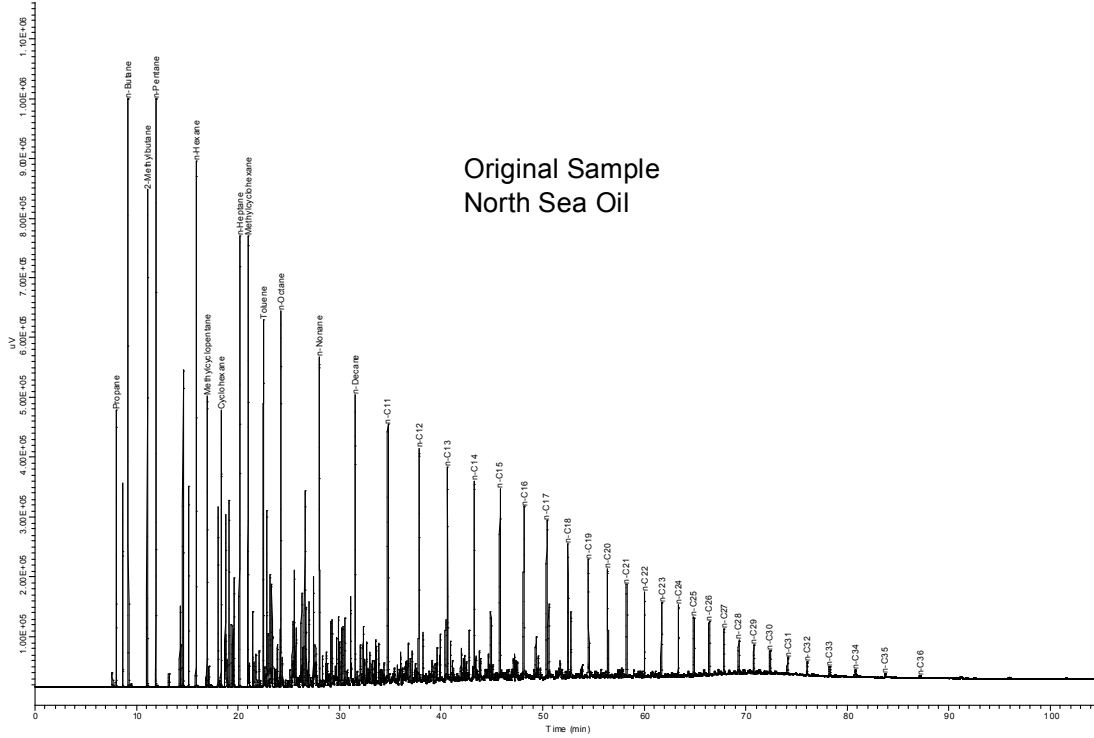
PHYSICAL PROPERTY DATA

TABLE 1

ANALYSIS	INITIAL	POST ENZYME	UNITS
	A-210886	GEO-219086	
Automatic Pour Point	-15	-18	°C
BP 408 Acidity	0.10	0.10	mg KOH/g
IP 365 Density at 15 Deg C	0.8310	0.8314	kg/l
IP143 Crude Oil Asphaltene NOT ACCRED	0.23	0.15	% mass
KV at 20 Deg C	5.093	5.218	cSt
Concentration of Nickel	2	3	mg/kg
Concentration of Sulphur	0.781	0.806	% wt/wt
Concentration of Vanadium	10	10	mg/kg



COMPARISON OF OIL COMPOSITION BY GAS CHROMATOGRAPHY



DISCUSSION

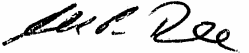
A sample of typical North Sea oil was treated with a supplied Enzyme material to test the effect on “oil improvement”. The oil was treated with the enzyme material as directed by the supplier and the physical properties and overall hydrocarbon composition were measured pre and post treatment.

Comparison of the key physical properties shows negligible difference between the samples (Table 1). Examination of the overall hydrocarbon distribution by GC again does not show any significant difference.

Analysis has been carried out on samples as received, independent of sampling procedure, using the latest versions of all test methods.

¥ GC Analysis, opinions and interpretations expressed herein are outside the scope of UKAS accreditation.

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