

SUMMARY OF CRUDE ASSAYS

S/NO.	CRUDE PROPERTIES	SI UNIT	ESCRAVOS	QUA IBOE	BONNY LT	FORCADOS	BRASS BLEND	PENNINGTON	UKPOKITI	IMA	OBE	ANTAN	OKWORI
1	DENSITY @ 15° C						0.8431kg/l			0.792kg/l	0.8358kg/l		0.8376kg/l
2	SPECIFIC GRAVITY @ 60/60° F		0.8528kg/l	0.8487	0.8607			0.8497kg/l	0.8168kg/l			0.8724kg/l	
3	API GRAVITY		34.4	35.2	32.9	30.2	36.3	35	41.7	47.2	37.7	30.7	37.27
4	MOLECULAR WEIGHT	g/mol	209										194.9
5	SEDIMENT	%wt								0.03			
6	WATER	%wt							0.704	<0.030			
7	BS&W	%wt							0.6			0.03	0.1
8	NEUTRALIZATION NUMBER (TAN)	mgKOH/g	0.53	0.32	0.28	0.34	0.29	0.14	0.28	0.08	0.1	0.48	0.35
9	ANILINE POINT	deg° F											
10	POUR POINT	deg° C	7				-36			6			
11	POUR POINT	deg° F	45	60	19	-11		50	48		9	24	9
12	FLASH POINT	deg C										27	<0
13	SMOKE POINT	mm											17
14	WAX CONTENT	wt%								5.4		4.87	
15	CONGEALING POINT	deg C								60			
	KINEMATIC VISCOSITY	cSt											
16	AT 15C/59F				8.07	11.01			109.6				
17	AT 25C/77F				6.02	7.99			3.248				
18	AT40C/104F			3.52	4.16	5.33			2.447	1.46			
22	VISCOSITY @ 20° C						4.05						
19	VISCOSITY @ 40° C		4.75					3.36					
20	VISCOSITY @ 50° C		3.54	2.89	3.38			2.69					
21	VISCOSITY @ 50° C	V50-VALUE								2.9			
23	CETANE INDEX												
24	SALT CONTENT	ptb		6.5	3.2	1.5			121ptb	8ptb		46mg/l	41mg/l
25	REID VAPOUR PRESSURE (RVP)	psi		5.6	2.5	2.8			4.6			0.3	
26	UOP K FACTOR		11.7		11.5	11.5	11.7	11.7		12.19			
27	ASH CONTENT	wt%							0.016			0.003	0.003
28	CONRADSON CARBON RESIDUE (CCR)	wt%	1.4	1.12	1.31	0.9	0.9	0.7	0.41			2.43	0.76
29	RAMSBOTTOM CARBON	wt%	1.1					0.6					
	ELEMENTAL												
30	TOTAL NITROGEN	ppm	1268		1210	910		448		360			
31	TOTAL NITROGEN	wt%		0.081	0.121				0.0378			0.23	
32	BASIC NITROGEN	ppm			430	401			179				
33	BASIC NITROGEN	wt%		0.041	0.043								
34	SULPHUR	wt%	0.15	0.12	0.16	0.16	0.13	0.08	0.09	0.05	0.145	0.36	0.13
35	HYDROGEN	wt%	13.1										
36	CARBON	wt%											
37	MERCAPTAN SULPHUR	ppm		<2	9	1	2		<1			70	<1
38	HYDROGEN SULPHIDE	ppm				0			<1	<1		2	
39	IRON	ppm	0					1	6.9				1.8
40	NICKEL	ppm	5	4.08	3.9	3.3	2	1	0.8			13.65	4.3
41	ASPHALTENES (n-pentane)	%m/m											0.08
42	ASPHALTENES (n-Heptane)	%m/m	0				0.2	0				0.24	0.05
43	VANADIUM	ppm	1	0.34	0.4	0.4	<2	0	<0.1			4.25	0.15
44	COPPER	ppm							<0.1				
45	ZINC	ppm							0.7				
46	SODIUM	ppm										6.83	<1

