



Crude **FORCADOS**

Country Nigeria

TBP
DISTILLATION

Density at 15°C, kg/m3	867.5	Assay Date	01-Mar-14	°C	wt%	vol%	°C	wt%	vol%
°API	31.5			080	4.88	6.58	460	83.37	85.30
Bbl/mt	7.263			090	5.87	7.76	480	85.87	87.58
Acidity, mg KOH/g	0.33			100	7.09	9.20	500	88.08	89.59
Sulphur, wt%	0.220			120	10.30	12.87	520	90.03	91.34
Hydrogen Sulphide, mg/kg	1			140	14.32	17.36	540	91.72	92.86
Mercaptan Sulphur, mg/kg	12			160	18.09	21.49	560	93.18	94.15
Viscosity, cSt at 10 °C	11.4			180	20.92	24.53	580	94.43	95.25
50 °C	3.5			200	23.79	27.55			
Pour Point, °C	5			220	27.29	31.18			
Total Nitrogen, wt%	0.094			240	31.59	35.55			
Wax, wt%	7.0			260	36.76	40.74			
Wax Appearance Temperature, °C	-			280	42.80	46.72			
RVP at 37.8 °C, kPa	-	Ethane	0.01	0.02	300	49.45	53.23		
Water, vol%	-	Propane	0.18	0.31	320	56.07	59.63		
NaCl, mg/kg	-	Iso-Butane	0.28	0.43	340	61.87	65.19		
Nickel, mg/kg	4.1	n-Butane	0.60	0.89	360	66.59	69.68		
Vanadium, mg/kg	0.8				380	70.58	73.44		
Iron, mg/kg	-				400	74.18	76.82		
Mercury, µg/kg	-				420	77.52	79.92		
					440	80.58	82.75		

PROPERTIES OF TBP CUTS

LIGHT NAPHTHA	Cuts	Yield	Yield	Den 15°C	S	RSH	RON	MON			Napht.	Aro.	RVP			
	°C	wt%	vol %	kg/m3	wt%	mg/kg	clear	clear			vol%	vol%	kPa			
	15-65	2.70	3.59	650	0.0028	2	78.9	77.5			10.3	0.3	-			
	15-80	3.81	4.94	666	0.0033	5	77.4	75.9			20.1	1.1	-			
HEAVY NAPHTHA	Cuts	Yield	Yield	Den 15°C	S	RSH					Napht.	Aro.				
	°C	wt%	vol %	kg/m3	wt%	mg/kg					vol%	vol%				
	80-150	11.45	12.99	761	0.0095	12					53.8	9.9				
80-175	15.38	17.24	770	0.0114	12					53.4	10.9					
100-150	9.23	10.38	768	0.0103	12					53.3	10.8					
KEROSENE	Cuts	Yield	Yield	Den 15°C	S	RSH	Smoke	Acidity	Cetane	Freez. Pt		Aro.	Visc cSt			Flash
	°C	wt%	vol %	kg/m3	wt%	mg/kg	Pt mm	mgKOH/g	Index	°C		vol%	50°C			Point
	150-230	13.01	13.69	820	0.030	12	23	0.03	32.9	-63		17.8	1.0			-
	175-230	9.08	9.44	830	0.036	12	22	0.04	33.3	-57		19.4	1.1			-
150-250	17.73	18.47	829	0.041	12	22	0.04	34.7	-56		19.5	1.1			-	
GASOIL	Cuts	Yield	Yield	Den 15°C	S		Anilin		Cetane	Cloud Pt	CFPP	Pour Pt	Visc cSt	Visc cSt	UOPK	Flash
	°C	wt%	vol %	kg/m3	wt%		Point °C		Index	C	C	C	50°C	100°C		Point
	175-400	53.93	53.00	879	0.163		60		41.0	-6	-10	-14	3.3	1.4	11.4	-
	230-400	44.85	43.56	889	0.189		61		42.4	-4	-6	-7	4.3	1.7	11.4	-
230-375	40.29	39.28	886	0.179		60		41.6	-8	-10	-11	3.8	1.5	11.4	-	
VACUUM DISTILLATE	Cuts	Yield	Yield	Den 15°C	S	Conrad.	Anilin	Ni	Va	Total N	Bas N	Pour Pt	Visc cSt	Visc cSt	UOPK	Asp C7
	°C	wt%	vol %	kg/m3	wt%	wt%	Point °C	mg/kg	mg/kg	wt%	mg/kg	C	100°C	150°C		wt %
	375-550	22.85	20.99	940	0.34	0.3	77	0	0	0.146	493	38	12.7	4.1	11.6	0.0
	375-565	23.88	21.90	942	0.35	0.5	77	1	0	0.156	510	39	13.7	4.3	11.6	0.0
	375-580	24.80	22.71	943	0.36	0.6	77	1	0	0.165	527	40	14.6	4.5	11.6	0.0
400-580	20.24	18.43	948	0.38	0.7	79	1	0	0.187	588	43	19.7	5.5	11.6	0.0	
RESIDUE	Cuts	Yield	Yield	Den 15°C	S	Conrad.	Acidity	Ni	Va	Total N		Pour Pt	Visc cSt	Visc cSt	Pene	Asp C7
	°C	wt%	vol %	kg/m3	wt%	wt%	mgKOH/g	mg/kg	mg/kg	wt%		C	100°C	150°C	mm/10	wt%
	> 375	30.37	27.46	955	0.47	3.8	1.0	13	3	0.289		17	28	7	-	0.0
	> 550	7.52	6.47	1004	0.87	14.5	1.1	53	11	0.723		61	1430	92	73	0.1
	> 565	6.49	5.56	1009	0.92	16.3	1.0	60	12	0.780		65	2400	128	52	0.1
> 580	5.58	4.75	1014	0.97	18.2	1.0	68	14	0.839		68	4230	183	39	0.1	

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