



Crude **BONNY LIGHT**

Country Nigeria

TBP  
DISTILLATION

Density at 15°C, kg/m3	850.0	Assay Date	18-Jun-20			°C	wt%	vol%	°C	wt%	vol%
°API	34.9					080	7.4	9.8	460	84.1	86.2
Bbl/mt	7.412				090	8.7	11.3	480	86.4	88.3	
Acidity, mg KOH/g	0.26				100	10.2	13.0	500	88.4	90.2	
Sulphur, wt%	0.15				120	13.9	17.1	520	90.3	91.8	
Hydrogen Sulphide, mg/kg	1				140	18.3	21.9	540	91.9	93.2	
Mercaptan Sulphur, mg/kg	15				160	22.5	26.4	560	93.3	94.4	
Viscosity, cSt at 10 °C	8.0				180	26.0	30.2	580	94.5	95.4	
Viscosity, cSt at 50 °C	3.0				200	29.2	33.5				
Pour Point, °C	-18				220	32.9	37.2				
Total Nitrogen, wt%	0.09				240	37.2	41.6				
Wax, wt%	-				260	42.2	46.6				
Wax Appearance Temperature, °C	-				280	47.7	51.9				
RVP at 37.8 °C, kPa	-				300	53.1	57.3				
Water, vol%	-				320	58.4	62.3				
NaCl, mg/kg	-				340	63.3	67.0				
Nickel, mg/kg	3.6				360	67.7	71.2				
Vanadium, mg/kg	0.5				380	71.7	74.9				
Iron, mg/kg	2.6				400	75.3	78.3				
Mercury, µg/kg	-				420	78.6	81.2				
					440	81.5	83.9				

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	4.5	5.8	653	0.00	2	78.8	77.6			11.7	1.3	-			
	15-80	6.1	7.7	669	0.00	4	77.2	75.8			20.0	3.7	-			
HEAVY NAPHTHA	Cuts	Yield	Yield	Den 15°C	S	RSH					Napht.	Aro.				
	°C	wt%	vol %	kg/m3	wt%	mg/kg					vol%	vol%				
	80-150	13.0	14.5	763	0.00	11					54.3	13.2				
80-175	17.8	19.5	772	0.00	11					53.9	13.8					
100-150	10.2	11.2	771	0.00	11					54.8	13.0					
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	14.5	15.1	816	0.02	12	23	0.01	33.5	-62		18.0	1.0			55.6
	175-230	9.7	10.0	826	0.03	12	22	0.01	34.7	-56		19.2	1.1			69.9
150-250	19.2	19.8	824	0.03	12	22	0.01	35.8	-56		19.0	1.1			59.4	
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	50.1	49.0	868	0.13		63		43.6	-5	-9	-14	3.1	1.4	11.6	85.5
	230-400	40.4	39.0	879	0.15		66		45.6	-2	-4	-6	4.3	1.7	11.6	106.2
230-375	35.8	34.7	875	0.14		65		45.2	-7	-9	-11	3.7	1.5	11.5	104.8	
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	21.8	19.8	936	0.27	0.2	78	0	0	0.16	599	39	10.9	3.6	11.6	0.0
	375-565	22.8	20.6	938	0.28	0.3	78	1	0	0.18	630	40	11.7	3.8	11.6	0.0
	375-580	23.7	21.4	940	0.28	0.4	79	1	0	0.19	660	41	12.5	4.0	11.7	0.0
400-580	19.1	17.2	946	0.30	0.5	80	1	0	0.22	760	45	16.8	4.9	11.7	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	29.2	26.0	955	0.33	3.8	0.6	12	2	0.30		14	24	6	-	0.0
	> 550	7.4	6.2	1015	0.51	14.3	0.3	48	7	0.71		64	1290	84	62	0.0
	> 565	6.4	5.3	1020	0.53	16.1	0.2	55	7	0.76		68	2160	116	44	0.0
> 580	5.5	4.6	1026	0.54	18.1	0.2	62	8	0.80		71	3800	165	34	0.0	

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