



Crude **BRASS RIVER**

Country Nigeria

TBP
DISTILLATION

Density at 15°C, kg/m3	841.5	Assay Date			01-May-18			°C	wt%	vol%	°C	wt%	vol%
°API	36.6							080	7.1	9.2	460	86.8	88.7
Bbl/mt	7.488							090	9.3	11.6	480	89.1	90.7
Acidity, mg KOH/g	0.28							100	11.8	14.5	500	91.0	92.4
Sulphur, wt%	0.13							120	16.8	20.0	520	92.7	93.9
Hydrogen Sulphide, mg/kg	1							140	21.1	24.6	540	94.2	95.1
Mercaptan Sulphur, mg/kg	2							160	25.5	29.3	560	95.4	96.2
Viscosity, cSt at 10 °C	4.8							180	29.5	33.6	580	96.4	97.0
Viscosity, cSt at 50 °C	2.3							200	33.3	37.4			
Pour Point, °C	-36							220	37.3	41.5			
Total Nitrogen, wt%	0.08							240	42.0	46.2			
Wax, wt%	-				wt% vol%			260	47.3	51.4			
Wax Appearance Temperature, °C	-							280	52.8	56.8			
RVP at 37.8 °C, kPa	-				Ethane			300	58.3	62.1			
Water, vol%	-				Propane			320	63.3	66.8			
NaCl, mg/kg	-				Iso-Butane			340	67.7	71.0			
Nickel, mg/kg	2.8				n-Butane			360	71.6	74.6			
Vanadium, mg/kg	0.4							380	75.1	78.0			
Iron, mg/kg	-							400	78.4	81.0			
Mercury, µg/kg	-							420	81.5	83.8			
								440	84.3	86.4			

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	3.4	4.4	661	0.00	1	78.4	77.8			12.4	1.0	-			
	15-80	5.7	7.0	682	0.00	1	75.9	75.4			22.3	3.4	-			
HEAVY NAPHTHA	Cuts	Yield	Yield	Den 15°C	S	RSH					Napht.	Aro.				
	°C	wt%	vol %	kg/m3	wt%	mg/kg					vol%	vol%				
	80-150	16.2	17.8	761	0.00	1					45.2	14.7				
80-175	21.5	23.4	770	0.00	1					42.3	16.1					
100-150	11.5	12.5	770	0.00	1					44.6	16.2					
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	16.3	16.8	814	0.01	1	19	0.02	34.3	-56		20.3	1.0			55.8
	175-230	11.0	11.2	823	0.02	1	18	0.02	35.6	-50		20.3	1.1			69.6
150-250	21.3	21.7	822	0.02	1	18	0.02	36.2	-50		20.7	1.1			59.3	
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	49.8	48.5	864	0.12		65		44.1	-3	-7	-11	2.8	1.3	11.6	83.1
	230-400	38.9	37.3	876	0.15		68		46.1	1	-1	-2	4.0	1.6	11.6	105.2
230-375	34.7	33.4	873	0.14		67		45.3	-4	-6	-7	3.5	1.5	11.5	103.9	
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	20.5	18.5	931	0.24	0.3	82	0	0	0.15	663	45	9.9	3.4	11.7	0.0
	375-565	21.4	19.3	933	0.24	0.5	82	1	0	0.16	696	45	10.5	3.6	11.7	0.0
	375-580	22.1	19.9	934	0.25	0.6	82	1	0	0.17	730	46	11.2	3.8	11.7	0.1
400-580	18.0	16.0	942	0.26	0.8	83	1	0	0.19	813	50	14.6	4.5	11.7	0.1	
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	25.7	22.8	946	0.30	3.4	0.7	11	2	0.28		42	18	5	-	0.3
	> 550	5.2	4.3	1009	0.53	15.4	0.3	53	8	0.80		58	1090	73	93	1.2
	> 565	4.3	3.6	1015	0.56	17.7	0.3	61	9	0.89		59	2030	108	77	1.4
> 580	3.6	3.0	1021	0.59	20.2	0.2	71	11	0.99		60	4030	165	67	1.5	

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