



Crude **AKPO BLEND**

Country Nigeria

TBP
DISTILLATION

Density at 15°C, kg/m3	793.9	Assay Date			22-Oct-20			°C	wt%	vol%	°C	wt%	vol%
°API	46.7							080	12.4	15.5	460	91.4	93.0
Bbl/mt	7.937							090	14.5	17.8	480	92.6	94.0
Acidity, mg KOH/g	0.08							100	17.0	20.5	500	93.7	94.9
Sulphur, wt%	0.07							120	23.2	27.1	520	94.7	95.8
Hydrogen Sulphide, mg/kg	1							140	30.1	34.3	540	95.6	96.5
Mercaptan Sulphur, mg/kg	9							160	35.8	40.2	560	96.3	97.1
Viscosity, cSt at 10 °C	3.1							180	40.7	45.2	580	97.0	97.6
Viscosity, cSt at 50 °C	1.4							200	45.5	50.0			
Pour Point, °C	-6							220	50.3	54.7			
Total Nitrogen, wt%	0.05							240	55.1	59.4			
Wax, wt%	-				wt% vol%			260	60.1	64.2			
Wax Appearance Temperature, °C	-							280	65.1	69.0			
RVP at 37.8 °C, kPa	-				Ethane			300	70.0	73.6			
Water, vol%	-				Propane			320	74.5	77.9			
NaCl, mg/kg	-				Iso-Butane			340	78.5	81.5			
Nickel, mg/kg	1.5				n-Butane			360	81.8	84.5			
Vanadium, mg/kg	0.1							380	84.5	86.9			
Iron, mg/kg	0.5							400	86.7	88.9			
Mercury, µg/kg	-							420	88.5	90.4			
								440	90.0	91.8			

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	6.5	7.9	650	0.00	1	76.0	74.4			6.6	0.9	-			
	15-80	9.0	10.7	664	0.00	2	72.9	71.2			12.2	2.7	-			
HEAVY NAPHTHA	Cuts	Yield	Yield	Den 15°C	S	RSH					Napht.	Aro.				
	°C	wt%	vol %	kg/m3	wt%	mg/kg					vol%	vol%				
	80-150	20.8	22.0	747	0.00	7					44.5	10.7				
80-175	27.2	28.5	753	0.00	7					44.8	11.4					
100-150	16.1	16.9	753	0.00	7					46.6	11.0					
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	19.6	19.6	788	0.01	8	26	0.02	45.4	-50		14.9	1.0			55.6
	175-230	13.2	13.1	795	0.01	8	26	0.03	47.7	-43		15.5	1.1			69.0
150-250	24.5	24.4	793	0.01	8	26	0.03	47.3	-44		15.1	1.1			58.4	
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	47.1	44.9	830	0.06		73		54.0	1	-3	-8	2.4	1.1	12.0	78.9
	230-400	34.0	31.8	844	0.07		76		57.5	7	5	3	3.4	1.5	12.0	104.1
230-375	31.2	29.3	840	0.07		76		58.1	4	1	-1	3.0	1.4	12.0	103.1	
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	12.1	10.4	917	0.21	0.1	88	0	0	0.19	690	47	8.5	3.2	11.9	0.0
	375-565	12.6	10.8	919	0.21	0.2	88	0	0	0.20	727	48	9.0	3.3	11.9	0.0
	375-580	13.1	11.2	921	0.22	0.3	89	1	0	0.21	763	49	9.5	3.5	11.9	0.0
400-580	10.3	8.8	929	0.23	0.3	90	1	0	0.23	891	52	12.5	4.2	11.9	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	16.1	13.6	935	0.26	3.3	0.2	9	1	0.28		39	17	5	-	0.0
	> 550	4.0	3.2	994	0.44	13.1	0.2	36	3	0.56		59	571	55	114	0.0
	> 565	3.5	2.8	999	0.46	14.8	0.2	41	3	0.59		60	921	75	88	0.0
> 580	3.0	2.4	1004	0.48	16.7	0.2	46	4	0.61		61	1560	105	71	0.0	

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