

		Crude			TBP					
		Country	DJENO		DISTILLATION					
		Country	Congo							
Density at 15°C, kg/m3	895.5	Assay Date	30-Jan-18		°C	wt%	vol%	°C	wt%	vol%
°API	26.4				080	2.7	3.9	460	55.4	59.5
Bbl/mt	7.036				090	3.2	4.5	480	58.6	62.5
Acidity, mg KOH/g	0.70				100	3.9	5.3	500	61.6	65.4
Sulphur, wt%	0.541				120	5.7	7.5	520	64.7	68.3
Hydrogen Sulphide, mg/kg	8.9*				140	8.0	10.2	540	67.6	71.1
Mercaptan Sulphur, mg/kg	97				160	10.2	12.9	560	70.5	73.8
Viscosity, cSt at 10 °C	131				180	12.3	15.2	580	73.3	76.4
Viscosity, cSt at 50 °C	20				200	14.5	17.6			
Pour Point, °C	-6				220	17.1	20.4			
Total Nitrogen, wt%	0.346				240	20.0	23.5			
Wax, wt%	-				260	23.1	26.9			
Wax Appearance Temperature, °C	-				280	26.3	30.3			
RVP at 37.8 °C, kPa	-				300	29.7	33.8			
Water, vol%	-				320	33.0	37.2			
NaCl, mg/kg	-				340	36.3	40.6			
Nickel, mg/kg	47.0				360	39.6	43.9			
Vanadium, mg/kg	19.4				380	42.8	47.1			
Iron, mg/kg	-				400	46.0	50.3			
Mercury, µg/kg	-				420	49.2	53.4			
* Presence of H2S in crude. Simulated value.					440	52.3	56.4			

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	1.4	1.9	643	0.02	12	74.9	73.4			6.5	0.2	-				
15-80	1.9	2.6	657	0.02	26	72.2	70.3			13.8	0.7	-					
HEAVY NAPHTHA	Cuts	Yield	Yield	Den 15°C	S	RSH					Napht.	Aro.					
	°C	wt%	vol %	kg/m3	wt%	mg/kg					vol%	vol%					
	80-150	6.5	7.7	747	0.03	69					50.8	5.1					
	80-175	9.1	10.7	758	0.04	67					50.7	6.9					
100-150	5.3	6.3	754	0.04	67					52.3	5.7						
KEROSENE	Cuts	Yield	Yield	Den 15°C	S	RSH	H2S	Smoke	Acidity	Cetane	Freez. Pt	Aro.	Visc cSt			Flash	
	°C	wt%	vol %	kg/m3	wt%	mg/kg	mg/kg	Pt mm	mgKOH/g	Index	°C	vol%	50°C			Point	
	150-230	9.3	10.3	807	0.10	78	11	21	0.13	38.6	-66	12.6	1.0			57.2	
	175-230	6.7	7.4	815	0.11	84	8	21	0.14	39.1	-60	13.0	1.1			70.2	
150-250	12.3	13.6	814	0.12	86		21	0.15	40.4	-60	13.6	1.1			60.9		
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	34.2	35.7	859	0.32		67		47.5	-6	-8	-11	3.0	1.4	11.7	85.6	
	230-400	27.5	28.3	870	0.37		70		49.8	-3	-3	-3	4.1	1.8	11.7	107.2	
230-375	23.5	24.4	865	0.35		69		49.5	-9	-9	-9	3.5	1.6	11.7	105.3		
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	27.1	26.2	925	0.58	0.2	85	1	0	0.22	788	38	10.8	4.1	11.9	0.0	
	375-565	29.2	28.2	927	0.59	0.3	85	1	1	0.24	838	39	11.8	4.4	11.9	0.1	
	375-580	31.3	30.1	929	0.60	0.4	86	2	1	0.25	887	40	12.8	4.7	11.9	0.1	
400-580	27.3	26.2	933	0.62	0.5	87	2	1	0.28	970	42	15.7	5.4	11.9	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	58.0	53.7	966	0.77	9.5	1.0	81	34	0.59		21	90	19	-	2.2	
	> 550	30.9	27.5	1005	0.94	17.7	1.0	152	63	0.91		62	2,180	185	61	4.1	
	> 565	28.8	25.5	1009	0.95	18.8	1.0	162	67	0.94		66	3,260	245	46	4.4	
> 580	26.7	23.6	1013	0.97	20.1	1.0	173	72	0.98		69	5,040	332	36	4.7		

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TOTAL DTS / AM

Jun-18