TotalEnergies	Crude **DJENO** Country Congo	TBP DISTILLATION

Density at 15°C, kg/m3	895.5	Assay Date	30-Jan-18		
°API	26.4				
Bbl/mt	7.036				
Acidity, mg KOH/g	0.70				
Sulphur, wt%	0.541				
Hydrogen Sulphide, mg/kg	8.9*				
Mercaptan Sulphur, mg/kg	97				
Viscosity, cSt at 10 °C	131				
50 °C	20				
Pour Point, °C	-6				
Total Nitrogen, wt%	0.346				
Wax, wt%	-		wt%	vol%	
Wax Appearance Temperature, °C	-				
RVP at 37.8 °C, kPa	-	Ethane	0.02	0.05	
Water, vol%	-	Propane	0.22	0.38	
NaCl, mg/kg	-	Iso-Butane	0.13	0.21	
Nickel, mg/kg	47.0	n-Butane	0.43	0.65	
Vanadium, mg/kg	19.4				
Iron, mg/kg	-				
Mercury, µg/kg	-				

** Presence of H2S in crude. Simulated value.*

°C	wt%	vol%	°C	wt%	vol%
080	2.7	3.9	460	55.4	59.5
090	3.2	4.5	480	58.6	62.5
100	3.9	5.3	500	61.6	65.4
120	5.7	7.5	520	64.7	68.3
140	8.0	10.2	540	67.6	71.1
160	10.2	12.9	560	70.5	73.8
180	12.3	15.2	580	73.3	76.4
200	14.5	17.6			
220	17.1	20.4			
240	20.0	23.5			
260	23.1	26.9			
280	26.3	30.3			
300	29.7	33.8			
320	33.0	37.2			
340	36.3	40.6			
360	39.6	43.9			
380	42.8	47.1			
400	46.0	50.3			
420	49.2	53.4			
440	52.3	56.4			

PROPERTIES OF TBP CUTS

LIGHT NAPHTHA	Cuts °C	Yield wt%	Yield vol %	Den 15°C kg/m3	S wt%	RSH mg/kg	RON clear	MON clear			Napht. vol%	Aro. vol%	RVP 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 °C	Yield wt%	Yield vol %	Den 15°C kg/m3	S wt%	RSH mg/kg					Napht. vol%	Aro. 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 °C	Yield wt%	Yield vol %	Den 15°C kg/m3	S wt%	RSH mg/kg	H2S mg/kg	Smoke Pt mm	Acidity mgKOH/g	Cetane Index	Freez. Pt °C	Aro. vol%	Visc cSt 50°C			Flash 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 °C	Yield wt%	Yield vol %	Den 15°C kg/m3	S wt%		Anilin Point °C		Cetane Index	Cloud Pt C	CFPP C	Pour Pt C	Visc cSt 50°C	Visc cSt 100°C	UOPK	Flash 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 °C	Yield wt%	Yield vol %	Den 15°C kg/m3	S wt%	Conrad. wt%	Anilin Point °C	Ni mg/kg	Va mg/kg	Total N wt%	Bas N mg/kg	Pour Pt C	Visc cSt 100°C	Visc cSt 150°C	UOPK	Asp C7 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 °C	Yield wt%	Yield vol %	Den 15°C kg/m3	S wt%	Conrad. wt%	Acidity mgKOH/g	Ni mg/kg	Va mg/kg	Total N wt%		Pour Pt C	Visc cSt 100°C	Visc cSt 150°C	Pene mm/10	Asp C7 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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