



Crude **DALIA**

Country **Angola**

TBP
DISTILLATION

Density at 15°C, kg/m3	915.4	Assay Date	09-Mar-15	°C	wt%	vol%	°C	wt%	vol%
°API	23.0			080	0.74	1.00	460	57.10	59.86
Bbl/mt	6.882			090	0.98	1.30	480	60.65	63.32
Acidity, mg KOH/g	1.49			100	1.29	1.68	500	64.07	66.64
Sulphur, wt%	0.508			120	2.16	2.74	520	67.36	69.82
Hydrogen Sulphide, mg/kg	<1			140	3.44	4.24	540	70.50	72.83
Mercaptan Sulphur, mg/kg	10			160	5.15	6.22	560	73.47	75.68
Viscosity, cSt at 10 °C	224.0			180	7.12	8.45	580	76.27	78.35
50 °C	27.6			200	9.00	10.54			
Pour Point, °C	-51			220	11.18	12.91			
Total Nitrogen, wt%	0.212			240	14.47	16.45			
Wax, wt%	-		wt%	260	18.37	20.60			
Wax Appearance Temperature, °C	-			280	22.28	24.71			
RVP at 37.8 °C, kPa	9	Ethane	0.00	300	26.13	28.73			
Water, vol%	-	Propane	0.00	320	30.00	32.72			
NaCl, mg/kg	-	Iso-Butane	0.00	340	33.92	36.74			
Nickel, mg/kg	21.3	n-Butane	0.02	360	37.89	40.77			
Vanadium, mg/kg	8.6			380	41.87	44.78			
Iron, mg/kg	-			400	45.80	48.71			
Mercury, µg/kg	-			420	49.66	52.55			
				440	53.43	56.27			

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	0.38	0.52	672	0.0075	1	78.6	75.8			21.9	0.1	-			
	15-80	0.64	0.85	690	0.0079	3	76.9	73.7			36.8	0.4	-			
HEAVY NAPHTHA	Cuts	Yield	Yield	Den 15°C	S	RSH					Napht.	Aro.				
	°C	wt%	vol %	kg/m3	wt%	mg/kg					vol%	vol%				
	80-150	3.51	4.18	768	0.0154	8					74.0	3.2				
80-175	5.89	6.89	782	0.0215	9					71.9	5.1					
100-150	2.95	3.50	774	0.0165	8					74.1	3.7					
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	8.44	9.36	826	0.051	10	22	0.49	31.0	-83		12.0	1.2			57.5
	175-230	6.07	6.65	835	0.059	10	21	0.64	31.5	-79		13.7	1.3			70.4
150-250	12.16	13.33	835	0.065	10	21	0.81	33.6	-78		14.7	1.4			62.7	
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	39.18	40.82	879	0.274		63		42.0	-47	-50	-54	3.7	1.6	11.5	90.5
	230-400	33.12	34.18	887	0.314		65		43.5	-47	-48	-48	4.8	1.9	11.5	107.1
230-375	28.19	29.24	883	0.283		64		43.0	-55	-55	-56	4.0	1.7	11.5	105.2	
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	31.13	30.50	934	0.53	0.3	81	0	0	0.151	489	14	12.3	4.2	11.7	0.0
	375-565	33.31	32.58	936	0.54	0.4	82	1	0	0.161	516	16	13.3	4.5	11.7	0.0
	375-580	35.40	34.57	937	0.55	0.6	82	1	0	0.172	542	17	14.4	4.7	11.8	0.1
400-580	30.47	29.64	941	0.56	0.7	83	1	0	0.191	595	22	18.0	5.5	11.8	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	59.12	56.22	963	0.72	8.4	1.1	36	15	0.352		-3	64	13	-	1.4
	> 550	28.00	25.73	996	0.92	17.4	0.2	76	31	0.577		51	1230	99	144	2.8
	> 565	25.81	23.64	1000	0.94	18.7	0.1	82	33	0.599		54	1760	124	107	3.1
> 580	23.73	21.65	1003	0.96	20.0	0.1	88	36	0.621		57	2570	160	82	3.3	

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TOTAL DTS / AM

Mar-15