



Crude **NEMBA**
Country Angola

TBP
DISTILLATION

Density at 15°C, kg/m3	834.3	Assay Date	10-Jul-18	°C	wt%	vol%	°C	wt%	vol%
°API	38.0			080	9.9	13.1	460	73.5	77.4
Bbl/mt	7.553			090	11.7	15.2	480	75.9	79.5
Acidity, mg KOH/g	0.30			100	13.6	17.4	500	78.1	81.5
Sulphur, wt%	0.30			120	17.3	21.5	520	80.2	83.4
Hydrogen Sulphide, mg/kg	4			140	20.9	25.5	540	82.2	85.2
Mercaptan Sulphur, mg/kg	2			160	24.8	29.7	560	84.1	86.9
Viscosity, cSt at 10 °C	8.4			180	28.4	33.5	580	85.9	88.5
Viscosity, cSt at 50 °C	3.1			200	31.9	37.1			
Pour Point, °C	-3			220	35.5	40.8			
Total Nitrogen, wt%	0.17			240	39.3	44.7			
Wax, wt%	-			260	43.1	48.5			
Wax Appearance Temperature, °C	-			280	46.8	52.2			
RVP at 37.8 °C, kPa	76			300	50.4	55.7			
Water, vol%	-			320	53.8	59.0			
NaCl, mg/kg	-			340	57.1	62.2			
Nickel, mg/kg	12.2			360	60.2	65.1			
Vanadium, mg/kg	9.4			380	63.1	67.9			
Iron, mg/kg	12.5			400	65.9	70.4			
Mercury, µg/kg	-			420	68.6	72.9			
				440	71.1	75.2			
					wt%	vol%			
					Ethane	0.0	0.0		
					Propane	0.8	1.3		
					Iso-Butane	0.5	0.7		
					n-Butane	2.0	2.9		

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	4.5	5.7	652	0.00	1	74.0	72.4			7.6	1.1	-			
	15-80	6.6	8.2	669	0.00	1	72.0	70.1			14.6	2.6	-			
HEAVY NAPHTHA	Cuts	Yield	Yield	Den 15°C	S	RSH					Napht.	Aro.				
	°C	wt%	vol %	kg/m3	wt%	mg/kg					vol%	vol%				
	80-150	13.0	14.5	747	0.00	1					35.6	6.7				
	80-175	17.6	19.4	756	0.01	1					35.2	8.5				
100-150	9.2	10.2	756	0.01	1					34.3	7.3					
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	14.5	15.2	798	0.02	1	22	0.05	41.3	-55		15.6	1.1		55.9	
	175-230	9.9	10.2	806	0.03	1	21	0.06	42.8	-49		16.4	1.2		69.4	
150-250	18.3	19.0	803	0.03	1	21	0.06	43.2	-50		16.1	1.2		58.9		
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	38.4	37.9	844	0.18		71		50.1	-4	-8	-11	2.7	1.3	11.8	80.6
	230-400	28.5	27.7	858	0.23		75		53.3	1	0	-1	3.9	1.7	11.8	105.2
230-375	25.0	24.4	852	0.20		74		53.5	-4	-5	-6	3.4	1.5	11.8	103.7	
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	20.8	18.9	914	0.45	0.4	90	0	0	0.22	730	41	8.6	3.2	12.0	0.1
	375-565	22.1	20.1	916	0.46	0.5	90	0	0	0.24	765	42	9.3	3.4	12.0	0.1
	375-580	23.5	21.3	918	0.47	0.8	90	1	1	0.25	801	43	10.0	3.5	12.0	0.1
400-580	20.0	18.0	922	0.49	0.9	91	1	1	0.27	856	46	12.2	4.1	12.0	0.2	
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	37.6	32.8	953	0.64	8.1	0.1	33	25	0.45		36	47	10	-	2.7
	> 550	16.8	13.9	1007	0.88	17.6	0.1	72	56	0.72		57	1920	121	89	6.0
	> 565	15.4	12.7	1013	0.90	18.8	0.1	79	60	0.75		59	3160	167	71	6.5
> 580	14.1	11.5	1018	0.92	20.2	0.1	85	66	0.78		61	5440	238	60	7.0	

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TOTAL DTS / AM

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