



Crude **SEPIA**

Country **Brazil**

TBP
DISTILLATION

Density at 15°C, kg/m3	891.1	Assay Date	21-Sep-22	°C	wt%	vol%	°C	wt%	vol%
°API	27.2			080	4.5	6.3	460	54.5	58.9
Bbl/mt	7.071			090	5.3	7.3	480	57.7	61.9
Acidity, mg KOH/g	0.50			100	6.1	8.3	500	60.8	64.9
Sulphur, wt%	0.40			120	8.0	10.5	520	63.9	67.8
Hydrogen Sulphide, mg/kg	1			140	10.0	12.9	540	67.0	70.7
Mercaptan Sulphur, mg/kg	57			160	12.2	15.5	560	70.0	73.5
Viscosity, cSt at 10 °C	110.0			180	14.5	18.1	580	72.9	76.2
50 °C	18.1			200	17.0	20.8			
Pour Point, °C	-12			220	19.6	23.6			
Total Nitrogen, wt%	0.26			240	22.2	26.5			
Wax, wt%	-			260	24.9	29.3			
Wax Appearance Temperature, °C	-			280	27.7	32.2			
RVP at 37.8 °C, kPa	-			300	30.5	35.1			
Water, vol%	0.3			320	33.3	38.0			
NaCl, mg/kg	53.4			340	36.2	41.0			
Nickel, mg/kg	15.5			360	39.2	43.9			
Vanadium, mg/kg	15.2			380	42.1	46.9			
Iron, mg/kg	-			400	45.2	49.8			
Mercury, µg/kg	-			420	48.2	52.8			
				440	51.3	55.8			
					wt%	vol%			
					Ethane	0.0	0.0		
					Propane	0.4	0.7		
					Iso-Butane	0.2	0.3		
					n-Butane	0.5	0.8		

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	2.2	3.0	656	0.02	123	71.5	72.3			8.2	0.7	-			
	15-80	3.3	4.4	669	0.02	145	68.5	69.1			13.5	1.5	-			
HEAVY NAPHTHA	Cuts	Yield	Yield	Den 15°C	S	RSH					Napht.	Aro.				
	°C	wt%	vol %	kg/m3	wt%	mg/kg					vol%	vol%				
	80-150	6.6	7.9	744	0.04	68					39.9	6.9				
80-175	9.5	11.2	755	0.04	56					40.6	8.7					
100-150	5.0	5.9	753	0.04	54					41.6	8.0					
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	9.8	10.9	803	0.08	23	22	0.19	39.6	-56		15.8	1.1			56.9
175-230	6.9	7.6	811	0.08	21	22	0.20	40.2	-51		17.0	1.2			69.4	
150-250	12.5	13.7	809	0.08	23	22	0.20	41.1	-51		16.9	1.2			60.0	
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	31.2	32.4	855	0.20		67		48.0	-8	-12	-16	2.9	1.4	11.7	82.7
230-400	24.3	24.8	869	0.24		70		50.5	-4	-6	-8	4.0	1.8	11.7	107.2	
230-375	20.5	21.1	863	0.22		69		50.5	-10	-12	-14	3.4	1.6	11.7	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	27.2	26.0	928	0.41	0.3	85	0	0	0.20	466	34	12.6	4.6	11.8	0.2
	375-565	29.4	28.1	930	0.42	0.5	86	0	0	0.21	494	35	13.9	4.9	11.8	0.3
375-580	31.5	30.1	932	0.44	0.6	86	1	1	0.22	522	36	15.2	5.3	11.9	0.4	
400-580	27.7	26.3	936	0.45	0.7	87	1	1	0.24	561	38	19.0	6.2	11.9	0.4	
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	58.6	53.9	966	0.58	9.1	0.3	26	26	0.44		21	113	22	-	2.1
	> 550	31.5	27.9	1002	0.74	16.6	0.3	49	48	0.66		57	2890	190	83	3.8
> 565	29.3	25.8	1006	0.75	17.7	0.3	53	52	0.68		60	4350	249	66	4.0	
> 580	27.1	23.8	1010	0.76	18.9	0.3	56	55	0.70		63	6820	335	55	4.2	

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TOTAL DTS / AM

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