



TotalEnergies

Crude **SEPIA**

TBP

Country **Brazil**

DISTILLATION

Density at 15°C, kg/m3	890.0	Assay Date			17-Dec-21			°C	wt%	vol%	°C	wt%	vol%
°API	27.4							080	4.0	5.8	460	55.3	59.7
Bbl/mt	7.079							090	4.8	6.8	480	58.7	63.0
Acidity, mg KOH/g	0.30							100	5.8	8.0	500	62.1	66.2
Sulphur, wt%	0.43							120	8.0	10.7	520	65.5	69.3
Hydrogen Sulphide, mg/kg	2							140	10.0	13.0	540	68.7	72.3
Mercaptan Sulphur, mg/kg	19							160	11.9	15.2	560	71.8	75.2
Viscosity, cSt at 10 °C	100.0							180	14.0	17.6	580	74.8	77.9
50 °C	25.0							200	16.5	20.4			
Pour Point, °C	-6							220	19.2	23.3			
Total Nitrogen, wt%	0.38							240	21.9	26.2			
Wax, wt%	7.3				wt% vol%			260	24.6	29.1			
Wax Appearance Temperature, °C	-							280	27.3	32.0			
RVP at 37.8 °C, kPa	-				Ethane			300	30.1	34.8			
Water, vol%	-				Propane			320	32.9	37.7			
NaCl, mg/kg	-				Iso-Butane			340	35.8	40.6			
Nickel, mg/kg	15.1				n-Butane			360	38.8	43.6			
Vanadium, mg/kg	14.8							380	41.9	46.7			
Iron, mg/kg	-							400	45.1	49.9			
Mercury, µg/kg	-							420	48.5	53.2			
								440	51.9	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	1.8	2.5	643	0.01	59	74.9	74.3			5.4	0.0	-			
	15-80	2.6	3.5	659	0.01	91	71.0	70.1			12.2	0.2	-			
HEAVY NAPHTHA	Cuts	Yield	Yield	Den 15°C	S	RSH					Napht.	Aro.				
	°C	wt%	vol %	kg/m3	wt%	mg/kg					vol%	vol%				
	80-150	6.9	8.3	740	0.04	68					31.7	7.8				
80-175	9.5	11.2	750	0.04	70					31.1	11.4					
100-150	5.1	6.1	748	0.04	61					31.1	9.8					
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	9.6	10.7	800	0.07	43	23	0.26	41.4	-61		26.5	1.0			57.9
	175-230	7.1	7.8	809	0.08	32	22	0.28	41.7	-57		28.3	1.1			69.7
150-250	12.4	13.6	807	0.08	35	22	0.27	42.6	-57		26.7	1.1			61.2	
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	31.7	32.9	853	0.21		66		49.0	-12	-17	-22	2.8	1.4	11.8	83.0
	230-400	24.6	25.2	867	0.25		69		51.4	-8	-11	-14	4.1	1.8	11.8	107.3
230-375	20.6	21.2	860	0.22		68		51.7	-16	-18	-20	3.4	1.6	11.8	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	29.2	27.9	929	0.46	0.5	84	0	0	0.30	944	28	13.6	4.6	11.8	0.0
	375-565	31.5	30.0	931	0.47	0.7	85	0	0	0.32	1000	29	15.2	4.9	11.8	0.0
	375-580	33.7	32.0	933	0.48	0.9	86	1	1	0.33	1070	30	16.9	5.3	11.8	0.0
400-580	29.6	28.0	938	0.50	1.1	87	1	1	0.35	1130	33	21.3	6.2	11.8	0.0	
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	58.9	54.1	966	0.64	8.1	0.3	26	25	0.62		24	118	21	-	1.7
	> 550	29.7	26.2	1006	0.82	15.6	0.4	51	50	0.94		49	4690	246	133	3.4
	> 565	27.4	24.1	1010	0.84	16.7	0.4	55	54	0.97		51	7450	338	115	3.7
> 580	25.2	22.1	1015	0.85	17.7	0.4	59	58	1.01		53	12300	475	103	4.0	

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TOTAL DTS / AM

Mar-22