TotalEnergies	Crude **SEPIA** Country Brazil	TBP DISTILLATION

Density at 15°C, kg/m3	891.1
°API	27.2
Bbl/mt	7.071
Acidity, mg KOH/g	0.50
Sulphur, wt%	0.40
Hydrogen Sulphide, mg/kg	1
Mercaptan Sulphur, mg/kg	57
Viscosity, cSt at 10 °C	110.0
50 °C	18.1
Pour Point, °C	-12
Total Nitrogen, wt%	0.26
Wax, wt%	-
Wax Appearance Temperature, °C	-
RVP at 37.8 °C, kPa	-
Water, vol%	0.3
NaCl, mg/kg	53.4
Nickel, mg/kg	15.5
Vanadium, mg/kg	15.2
Iron, mg/kg	-
Mercury, µg/kg	-

Assay Date	21-Sep-22	
	wt%	vol%
Ethane	0.0	0.0
Propane	0.4	0.7
Iso-Butane	0.2	0.3
n-Butane	0.5	0.8

°C	wt%	vol%	°C	wt%	vol%
080	4.5	6.3	460	54.5	58.9
090	5.3	7.3	480	57.7	61.9
100	6.1	8.3	500	60.8	64.9
120	8.0	10.5	520	63.9	67.8
140	10.0	12.9	540	67.0	70.7
160	12.2	15.5	560	70.0	73.5
180	14.5	18.1	580	72.9	76.2
200	17.0	20.8			
220	19.6	23.6			
240	22.2	26.5			
260	24.9	29.3			
280	27.7	32.2			
300	30.5	35.1			
320	33.3	38.0			
340	36.2	41.0			
360	39.2	43.9			
380	42.1	46.9			
400	45.2	49.8			
420	48.2	52.8			
440	51.3	55.8			

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	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 °C	Yield wt%	Yield vol %	Den 15°C kg/m3	S wt%	RSH mg/kg					Napht. vol%	Aro. 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 °C	Yield wt%	Yield vol %	Den 15°C kg/m3	S wt%	RSH mg/kg	Smoke Pt mm	Acidity mgKOH/g	Cetane Index	Freez. Pt °C		Aro. vol%	Visc cSt 50°C			Flash 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 °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	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 °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	27.2	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 °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	58.6	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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