



Crude **SURURU**

Country **Brazil**

TBP
DISTILLATION

Density at 15°C, kg/m3	885.1	Assay Date	20-Nov-20	°C	wt%	vol%	°C	wt%	vol%
°API	28.3			080	4.4	6.1	460	59.8	64.0
Bbl/mt	7.119			090	5.1	7.1	480	63.1	67.1
Acidity, mg KOH/g	0.14			100	6.0	8.1	500	66.3	70.1
Sulphur, wt%	0.35			120	8.2	10.7	520	69.5	73.0
Hydrogen Sulphide, mg/kg	2			140	10.7	13.7	540	72.5	75.8
Mercaptan Sulphur, mg/kg	43			160	13.3	16.7	560	75.3	78.4
Viscosity, cSt at 10 °C	63.8			180	15.8	19.5	580	78.0	80.9
Viscosity, cSt at 50 °C	12.3			200	18.3	22.2			
Pour Point, °C	-18			220	20.9	25.0			
Total Nitrogen, wt%	0.26	240	23.7	28.0					
Wax, wt%	-	260	26.7	31.1					
Wax Appearance Temperature, °C	-	280	29.7	34.3					
RVP at 37.8 °C, kPa	-	300	32.9	37.6					
Water, vol%	-	320	36.2	40.9					
NaCl, mg/kg	-	340	39.5	44.2					
Nickel, mg/kg	10.1	360	42.8	47.6					
Vanadium, mg/kg	9.4	380	46.2	50.9					
Iron, mg/kg	2.7	400	49.6	54.2					
Mercury, µg/kg	-	420	53.0	57.5					
		440	56.4	60.8					

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	2.3	3.1	648	0.01	9	70.6	69.3			8.2	0.3	-			
	15-80	3.1	4.2	662	0.01	19	67.5	65.7			15.2	0.9	-			
HEAVY NAPHTHA	Cuts	Yield	Yield	Den 15°C	S	RSH					Napht.	Aro.				
	°C	wt%	vol %	kg/m3	wt%	mg/kg					vol%	vol%				
	80-150	7.7	9.1	745	0.02	54					44.8	6.3				
80-175	10.9	12.7	756	0.03	52					44.9	7.7					
100-150	6.0	7.1	753	0.02	53					45.6	7.0					
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	10.3	11.3	802	0.06	40	25	0.08	39.7	-59		15.1	1.0			56.2
	175-230	7.1	7.7	811	0.07	37	24	0.09	40.7	-53		16.8	1.2			69.4
150-250	13.2	14.4	808	0.07	38	24	0.09	41.4	-54		16.4	1.1			59.4	
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	34.4	35.4	857	0.19		66		48.1	-4	-7	-11	3.2	1.4	11.7	84.0
	230-400	27.3	27.7	869	0.23		69		50.3	-1	-2	-3	4.5	1.8	11.7	107.7
230-375	23.1	23.6	863	0.21		68		50.5	-6	-8	-9	3.7	1.6	11.7	105.6	
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	28.6	27.0	931	0.41	0.1	82	0	0	0.27	581	41	13.2	4.3	11.8	0.1
	375-565	30.7	29.0	933	0.41	0.2	83	0	0	0.29	691	42	14.5	4.6	11.8	0.2
	375-580	32.7	30.8	935	0.42	0.3	83	1	1	0.30	801	43	15.9	4.9	11.8	0.2
400-580	28.4	26.6	940	0.44	0.4	84	1	1	0.32	902	46	20.0	5.8	11.8	0.3	
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	54.6	49.9	965	0.54	8.0	0.1	19	17	0.44		22	88	16	-	2.2
	> 550	26.1	22.9	1006	0.68	16.7	0.1	39	36	0.63		63	3100	165	55	4.5
	> 565	24.0	21.0	1010	0.69	18.0	0.1	42	39	0.65		67	4880	221	42	4.8
> 580	22.0	19.1	1014	0.70	19.5	0.1	45	42	0.66		70	7990	304	34	5.2	

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TOTAL DTS / AM

Jul-21