



Crude **MERO**

Country **Brazil**

TBP  
DISTILLATION

Density at 15°C, kg/m3	882.2	Assay Date	01-Jul-19	°C	wt%	vol%	°C	wt%	vol%
°API	28.8			080	2.7	3.7	460	59.1	62.8
Bbl/mt	7.142			090	3.5	4.6	480	62.3	65.8
Acidity, mg KOH/g	0.28			100	4.5	5.8	500	65.4	68.7
Sulphur, wt%	0.32			120	6.9	8.7	520	68.4	71.6
Hydrogen Sulphide, mg/kg	2			140	9.8	12.0	540	71.4	74.3
Mercaptan Sulphur, mg/kg	50			160	12.5	15.2	560	74.1	76.9
Viscosity, cSt at 10 °C	55.9			180	15.0	18.0	580	76.8	79.3
50 °C	11.5			200	17.6	20.9			
Pour Point, °C	-18			220	20.4	23.9			
Total Nitrogen, wt%	0.25			240	23.4	27.1			
Wax, wt%	-			260	26.5	30.4			
Wax Appearance Temperature, °C	-			280	29.7	33.7			
RVP at 37.8 °C, kPa	12	Ethane	0.0	0.0	300	33.0	37.1		
Water, vol%	-	Propane	0.1	0.1	320	36.3	40.4		
NaCl, mg/kg	-	Iso-Butane	0.0	0.1	340	39.5	43.7		
Nickel, mg/kg	4.5	n-Butane	0.1	0.2	360	42.8	47.0		
Vanadium, mg/kg	6.0				380	46.1	50.3		
Iron, mg/kg	3.3				400	49.4	53.5		
Mercury, µg/kg	-				420	52.7	56.6		
					440	55.9	59.7		

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	1.6	2.2	652	0.00	6	69.8	68.4			8.8	0.8	-			
	15-80	2.5	3.3	668	0.01	14	66.4	64.9			16.0	2.5	-			
HEAVY NAPHTHA	Cuts	Yield	Yield	Den 15°C	S	RSH					Napht.	Aro.				
	°C	wt%	vol %	kg/m3	wt%	mg/kg					vol%	vol%				
	80-150	8.4	10.0	746	0.02	50					41.3	7.3				
80-175	11.7	13.6	755	0.03	51					41.4	8.4					
100-150	6.7	7.9	752	0.02	52					42.2	7.4					
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	10.8	11.9	800	0.06	46	25	0.11	41.0	-58		15.6	1.1			56.5
	175-230	7.5	8.2	808	0.07	43	24	0.12	41.9	-53		17.5	1.2			69.6
150-250	13.8	15.1	806	0.07	43	24	0.12	42.6	-53		16.8	1.2			59.7	
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	35.0	36.1	853	0.18		67		48.9	-4	-8	-12	3.0	1.4	11.8	83.5
	230-400	27.5	28.0	866	0.20		70		51.3	-1	-2	-3	4.2	1.8	11.8	107.1
230-375	23.4	23.9	860	0.19		69		51.4	-6	-8	-9	3.5	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	27.5	26.2	927	0.37	0.3	84	0	0	0.25	828	40	11.3	3.9	11.8	0.0
	375-565	29.5	28.1	928	0.38	0.4	85	0	0	0.26	917	41	12.3	4.2	11.8	0.0
	375-580	31.5	29.9	930	0.38	0.5	85	0	0	0.27	1000	42	13.3	4.5	11.9	0.0
400-580	27.4	25.9	934	0.39	0.6	86	0	0	0.29	1120	45	16.4	5.2	11.9	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	54.7	50.6	954	0.49	5.6	0.2	8	11	0.44		20	60	13	-	0.0
	> 550	27.2	24.4	984	0.62	10.9	0.2	17	22	0.63		50	892	83	171	0.0
	> 565	25.2	22.5	987	0.63	11.6	0.2	18	24	0.65		52	1230	103	136	0.0
> 580	23.2	20.7	990	0.64	12.4	0.2	19	26	0.67		54	1740	130	111	0.0	

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TOTAL DTS / AM

Oct-19