TotalEnergies

Crude **MOSTARDA**

Country Angola

TBP DISTILLATION

Density at 15°C, kg/m3	886.9
°API	28.0
Bbl/mt	7.104
Acidity, mg KOH/g	0.53
Sulphur, wt%	1.12
Hydrogen Sulphide, mg/kg	0
Mercaptan Sulphur, mg/kg	88
Viscosity, cSt at 10 °C	122.0
50 °C	9.9
Pour Point, °C	2
Total Nitrogen, wt%	0.28
Wax, wt%	-
Wax Appearance Temperature, °C	-
RVP at 37.8 °C, kPa	47
Water, vol%	-
NaCl, mg/kg	-
Nickel, mg/kg	25.3
Vanadium, mg/kg	37.8
Iron, mg/kg	-
Mercury, µg/kg	-

Assay Date 09-May-19

	wt%	vol%
Ethane	0.0	0.0
Propane	0.2	0.4
Iso-Butane	0.1	0.2
n-Butane	0.5	0.7

°C	wt%	vol%	°C	wt%	vol%
080	4.0	5.5	460	60.2	64.4
090	4.8	6.5	480	63.4	67.5
100	5.7	7.6	500	66.6	70.6
120	7.8	10.2	520	69.8	73.5
140	10.4	13.1	540	72.8	76.3
160	13.0	16.1	560	75.6	78.9
180	15.4	18.8	580	78.3	81.4
200	17.9	21.6			
220	20.6	24.5			
240	23.5	27.6			
260	26.7	31.0			
280	30.1	34.6			
300	33.7	38.2			
320	37.3	41.9			
340	40.8	45.5			
360	44.2	49.0			
380	47.5	52.2			
400	50.7	55.3			
420	53.8	58.4			
440	56.9	61.4			

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	2.3	3.1	650	0.00	0	74.5	73.1			8.4	0.3	-			
	15-80	3.2	4.2	665	0.00	0	71.6	70.0			15.1	1.0	-			
HEAVY NAPHTHA	Cuts °C	Yield wt%	Yield vol %	Den 15°C kg/m3	S wt%	RSH mg/kg					Napht. vol%	Aro. vol%				
	80-150	7.7	9.1	748	0.02	1					47.3	7.3				
	80-175	10.9	12.7	758	0.03	1					46.5	9.2				
	100-150	6.0	7.0	756	0.02	1					48.6	8.2				
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	10.3	11.4	803	0.15	3	23	0.10	39.6	-60		16.6	1.0			56.4
	175-230	7.2	7.8	811	0.18	3	23	0.11	40.8	-55		17.7	1.2			69.6
	150-250	13.4	14.7	809	0.18	4	23	0.11	41.7	-54		17.5	1.1			59.9
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	35.9	37.2	853	0.65		68		49.4	-4	-8	-12	3.0	1.4	11.8	84.7
	230-400	28.7	29.3	864	0.77		71		52.1	-1	-3	-4	4.1	1.7	11.8	107.3
	230-375	24.7	25.5	858	0.70		70		52.3	-6	-8	-9	3.5	1.5	11.8	105.6
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	27.5	26.2	929	1.34	0.4	85	0	1	0.18	522	37	10.4	3.6	11.8	0.1
	375-565	29.6	28.1	931	1.37	0.5	85	1	1	0.19	550	39	11.3	3.9	11.8	0.1
	375-580	31.6	29.9	933	1.39	0.7	86	1	2	0.20	580	40	12.3	4.1	11.8	0.1
	400-580	27.6	26.0	938	1.42	0.8	87	2	2	0.22	626	42	14.9	4.7	11.8	0.1
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	53.3	48.6	970	1.75	9.0	0.3	47	71	0.52		29	76	15	-	2.6
	> 550	25.8	22.4	1019	2.18	18.3	0.2	98	146	0.89		54	3360	173	100	5.2
	> 565	23.7	20.4	1024	2.22	19.7	0.2	106	158	0.94		56	5840	247	83	5.6
	> 580	21.7	18.6	1030	2.27	21.2	0.2	114	172	0.99		58	10700	366	73	6.1