

Reference: SAXBT22X
Crude: Saxi Batuque



Crude Summary Report

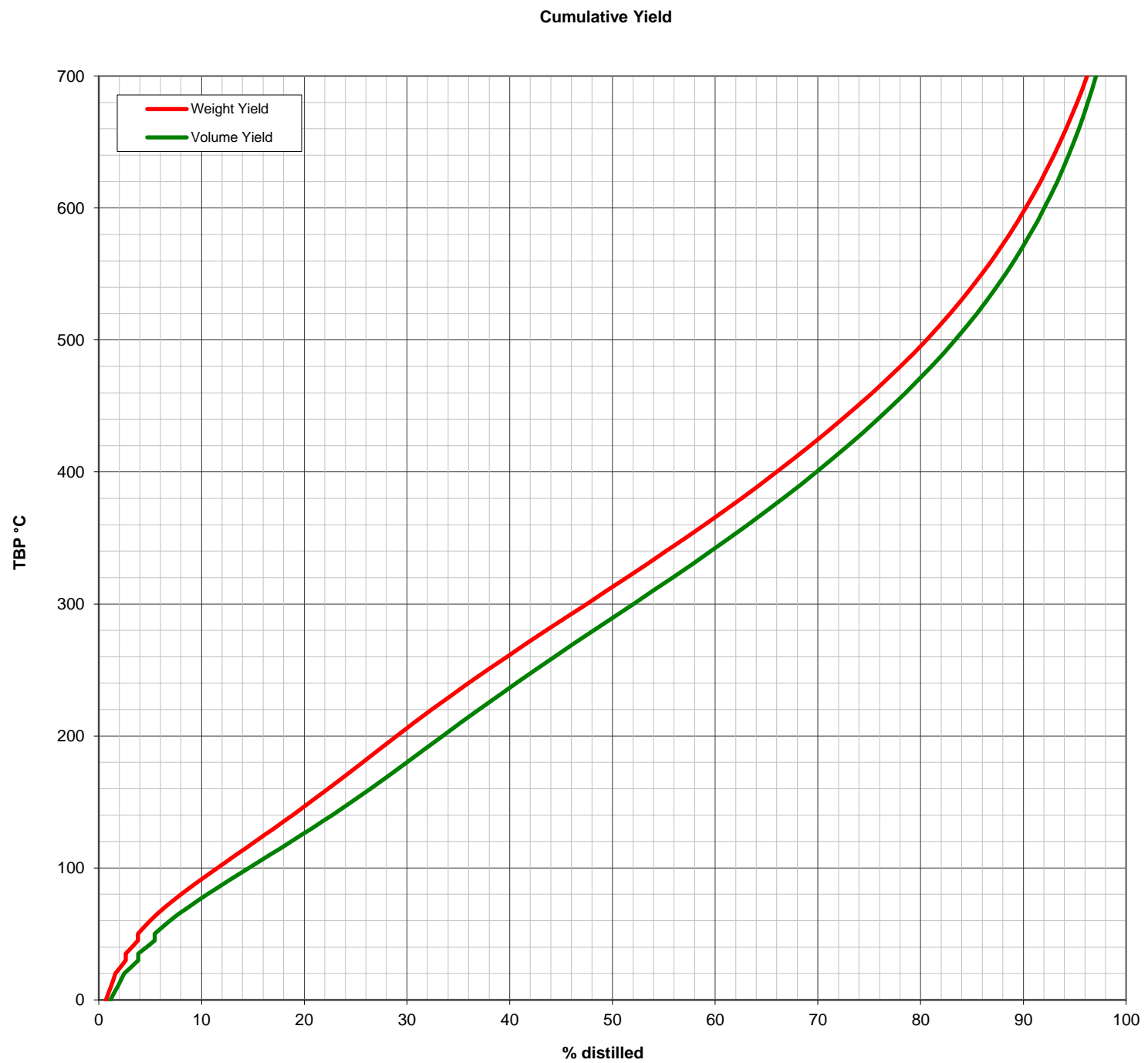
General Information		Molecules (%wt on crude)				Whole Crude Properties			
Reference:	SAXBT22X	methane + ethane	0.02	Density @ 15°C (g/cc)	0.8479				
Name:	Saxi Batuque	propane	0.37	API Gravity	35.3				
Origin:	Angola	isobutane	0.32	Total Sulfur (% wt)	0.23				
Assay Date:	11/23/2022	n-butane	0.94	Pour Point (°C)	-21				
Comments:		isopentane	0.93	Viscosity @ 20°C (cSt)	7.2				
		n-pentane	1.06	Viscosity @ 40°C (cSt)	4.4				
		cyclopentane	0.17	Nickel (ppm)	7.9				
		C6 paraffins	2.19	Vanadium (ppm)	1.9				
		C6 naphthenes	1.46	Total Nitrogen (ppm)	1438				
		benzene	0.18	Total Acid Number (mgKOH/g)	0.69				
		C7 paraffins	1.92	Mercaptan Sulfur (ppm)	7.0				
		C7 naphthenes	2.62	Hydrogen Sulfide (ppm)	0.0				
		toluene	0.67	Reid Vapor Pressure (kPa)	51.8				

Cut Data	IBP	Atmospheric Cuts									Vacuum Cuts			
		C5	65	100	150	200	250	300	350	370	370	450	500	550
Start (°C)														
End (°C)	FBP	65	100	150	200	250	300	350	370	FBP	450	500	550	FBP
Yield (% wt)		4.3	5.9	9.0	8.4	8.8	9.6	9.6	3.7	39.2	13.1	6.7	5.4	14.0
Yield (% vol)		5.6	6.8	10.0	8.9	9.0	9.5	9.4	3.5	35.1	12.3	6.2	4.9	11.7
Cumulative Yield (% wt)		1.4	5.7	11.6	20.6	29.0	37.8	47.5	57.1	60.8	60.8	73.8	80.6	86.0
Volume Average B.P. (°C)	306	42.4	83	125	175	225	275	325	360	516	408	474	524	648
Density @ 15°C (g/cc)	0.8479	0.6432	0.7298	0.7675	0.8017	0.8296	0.8572	0.8696	0.8895	0.9467	0.8999	0.9248	0.9329	1.0128
API Gravity	35.3	88.5	62.3	52.8	44.9	39.0	33.5	31.1	27.5	17.9	25.7	21.4	20.1	8.1
UOPK	11.96			11.65	11.60	11.62	11.61	11.78	11.74	11.87	11.89	11.93	12.08	11.68
Molecular Weight (g/mol)				109	136	169	206	252	286	508	344	441	560	981
Total Sulfur (% wt)	0.23	0.000	0.001	0.004	0.018	0.041	0.093	0.195	0.264	0.487	0.291	0.374	0.471	0.73
Mercaptan Sulfur (ppm)	7.0													
Total Nitrogen (ppm)	1438					13	44	151	295	3589	688	1506	2291	7781
Basic Nitrogen (ppm)	440					8	39	106	189	1066	330	570	811	2086
Total Acid Number (mgKOH/g)	0.69	0.03	0.09	0.21	0.39	0.73	1.18	1.38	1.23	0.70	1.03	0.91	0.80	0.27
Viscosity @ 20°C (cSt)	7.24				1.30									
Viscosity @ 40°C (cSt)	4.35				1.00	1.61	3.03	6.46	12.3					
Viscosity @ 50°C (cSt)	3.53					1.39	2.49	4.96	8.89	425	25.1	120	273	
Viscosity @ 60°C (cSt)										224	17.1	70.4	151	
Viscosity @ 100°C (cSt)										34.8	5.59	15.2	26.7	2259
Viscosity @ 130°C (cSt)														391
Viscosity @ 150°C (cSt)														160
RON (Clear)		77.2	48.0	65.3	47.9									
MON (Clear)		75.5	62.5	62.7	44.5									
Paraffins (% wt)	26.5	94.8	53.7	30.3	36.5									
Naphthenes (%wt)	40.8	5.2	43.0	53.9	46.2									
Aromatics (% wt)	32.7	0.0	3.3	15.8	17.3									
Pour Point (°C)	-21					-54	-33	-9	5	33	24	40	46	76
Cloud Point (°C)						-52	-31	-7						
Freeze Point (°C)						-68	-48	-26						
Smoke Point (mm)						24	20	17						
Cetane Index (D4737A)						33	41	46	56	57				
Naphthalenes (% vol)						0.1	3.3	8.3	8.8					
Aniline Point (°C)				50.0	51.3	57.2	68.1	76.6	80.5		87.9	96.8	100.6	
Hydrogen (% wt)	13.4	16.5	15.1	14.0	14.0	13.4	13.3	13.2	12.9		12.8	12.7	12.7	
Total Wax (% wt)	9.1									9.5	10.6	13.1	14.0	5.2
C7 Asphaltenes (% wt)	0.1									0.3	0.0	0.0	0.8	
Micro Carbon Residue (% wt)	2.5									6.3	0.1	1.2	17.1	
Vanadium (ppm)	1.9									4.9	0.0	0.0	13.6	
Nickel (ppm)	7.9									20.1	0.0	0.0	56.1	
Iron (ppm)	3.1									8.0	0.0	0.0	22.3	
Sodium (ppm)	0.7													
Mercury (ppb)	1.0													
Arsenic (ppb)	38													

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 Crude: **Saxi Batuque**

Yield Distribution



Cumulative Volume % Distilled at 10 Degree C (TBP) Intervals

	0	10	20	30	40	50	60	70	80	90
0				3.8	4.6	5.4	6.9	8.7	10.6	12.6
100	14.6	16.7	18.7	20.7	22.7	24.6	26.4	28.2	30.0	31.7
200	33.5	35.2	37.0	38.8	40.7	42.5	44.4	46.3	48.2	50.1
300	52.0	54.0	55.9	57.7	59.6	61.4	63.2	64.9	66.6	68.3
400	69.9	71.4	72.9	74.4	75.8	77.2	78.5	79.8	81.0	82.2
500	83.4	84.4	85.5	86.4	87.4	88.3	89.1	89.9	90.6	91.4