

Reference: KISSJ23Y
Crude: Kissanje Blend



Crude Summary Report

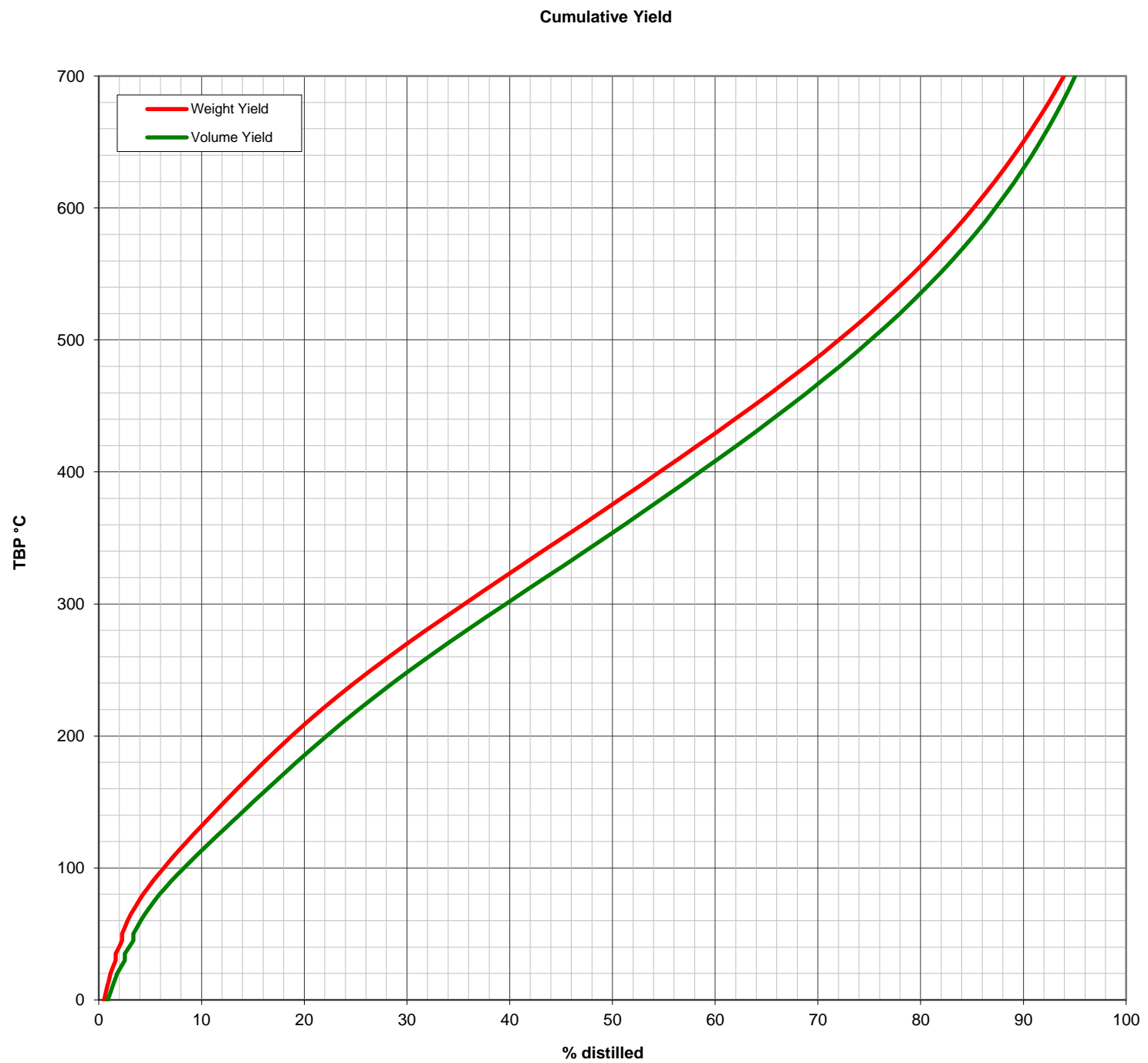
General Information		Molecules (%wt on crude)				Whole Crude Properties			
Reference:	KISSJ23Y	methane + ethane	0.01	Density @ 15°C (g/cc)	0.8790				
Name:	Kissanje Blend	propane	0.30	API Gravity	29.4				
Origin:	Angola	isobutane	0.21	Total Sulfur (% wt)	0.35				
Assay Date:	2/17/2023	n-butane	0.57	Pour Point (°C)	-14				
Comments:		isopentane	0.48	Viscosity @ 20°C (cSt)	25.3				
		n-pentane	0.55	Viscosity @ 40°C (cSt)	11.7				
		cyclopentane	0.10	Nickel (ppm)	16.1				
		C6 paraffins	1.02	Vanadium (ppm)	4.1				
		C6 naphthenes	0.83	Total Nitrogen (ppm)	1927				
		benzene	0.06	Total Acid Number (mgKOH/g)	0.55				
		C7 paraffins	0.92	Mercaptan Sulfur (ppm)	4.0				
		C7 naphthenes	1.72	Hydrogen Sulfide (ppm)	0.0				
		toluene	0.20	Reid Vapor Pressure (kPa)	47.6				

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)		2.2	3.2	5.9	6.5	7.7	9.1	9.6	3.8	51.0	14.7	8.3	7.2	20.8	
Yield (% vol)		2.9	3.8	6.7	7.1	8.2	9.3	9.6	3.8	47.0	14.2	7.9	6.7	18.2	
Cumulative Yield (% wt)		1.0	3.1	6.3	12.2	18.8	26.5	35.6	45.1	49.0	49.0	63.7	72.0	79.2	
Volume Average B.P. (°C)	363	41.2	84	125	175	226	275	325	360	531	409	474	524	653	
Density @ 15°C (g/cc)	0.8790	0.6481	0.7324	0.7676	0.8030	0.8325	0.8561	0.8684	0.8923	0.9517	0.9054	0.9287	0.9393	1.0026	
API Gravity	29.4	86.8	61.7	52.8	44.6	38.4	33.7	31.4	27.0	17.1	24.7	20.8	19.1	9.6	
UOPK	11.90			11.66	11.59	11.58	11.63	11.80	11.70	11.88	11.82	11.88	12.00	11.82	
Molecular Weight (g/mol)				109	137	169	207	253	285	535	342	439	555	1017	
Total Sulfur (% wt)	0.35	0.001	0.002	0.007	0.023	0.050	0.111	0.208	0.278	0.60	0.353	0.448	0.55	0.86	
Mercaptan Sulfur (ppm)	4.0	1.2	2.9	4.0	3.3	2.4	1.5								
Total Nitrogen (ppm)	1927					15	46	126	260	3722	721	1654	2569	7076	
Basic Nitrogen (ppm)	576					2	16	56	95	1109	247	567	720	2070	
Total Acid Number (mgKOH/g)	0.55	0.01	0.05	0.15	0.35	0.56	0.77	0.94	1.00	0.55	0.96	0.76	0.53	0.17	
Viscosity @ 20°C (cSt)	25.3				1.37										
Viscosity @ 40°C (cSt)	11.7				1.05	1.68	3.11	6.69	12.8						
Viscosity @ 50°C (cSt)	8.56					1.46	2.57	5.18	9.32	810	24.0	97.3	342		
Viscosity @ 60°C (cSt)										404	16.6	59.2	185		
Viscosity @ 100°C (cSt)										53.4	5.66	13.9	31.2	4613	
Viscosity @ 130°C (cSt)														661	
Viscosity @ 150°C (cSt)														248	
RON (Clear)		77.3	58.2	65.4	50.7										
MON (Clear)		75.7	67.9	62.3	46.0										
Paraffins (% wt)	20.0	94.4	46.3	25.1	29.6										
Naphthenes (%wt)	40.0	5.6	51.7	61.8	53.6										
Aromatics (% wt)	40.0	0.0	2.0	13.1	16.8										
Pour Point (°C)	-14						-66	-40	-17	-3	38	18	38	47	65
Cloud Point (°C)							-63	-38	-15						
Freeze Point (°C)							-84	-57	-33						
Smoke Point (mm)							22	19	15						
Cetane Index (D4737A)							33	40	47	56	56				
Naphthalenes (% vol)							0.1	2.9	9.2	12.8					
Aniline Point (°C)				44.6	48.8	56.9	66.9	74.9	78.2		84.0	91.4	95.5		
Hydrogen (% wt)	13.1	16.5	15.1	14.1	13.9	13.4	13.3	13.2	12.7		12.7	12.6	12.5		
Total Wax (% wt)	5.6									6.7	11.1	10.9	7.7	1.7	
C7 Asphaltenes (% wt)	0.3									0.6	0.0	0.0	1.6		
Micro Carbon Residue (% wt)	3.9									7.6	0.1	1.1	18.2		
Vanadium (ppm)	4.1									8.0	0.0	0.0	19.6		
Nickel (ppm)	16.1									31.6	0.0	0.0	77.7		
Iron (ppm)	6.7									13.1	0.0	0.0	32.1		
Sodium (ppm)	0.4														
Mercury (ppb)	1.0														
Arsenic (ppb)	67														

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Yield Distribution



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

	0	10	20	30	40	50	60	70	80	90
0				2.5	3.0	3.4	4.1	4.9	5.9	7.1
100	8.3	9.6	10.9	12.3	13.7	15.0	16.4	17.8	19.2	20.7
200	22.2	23.7	25.3	26.9	28.6	30.3	32.1	33.9	35.8	37.7
300	39.6	41.5	43.5	45.4	47.3	49.3	51.1	53.0	54.9	56.7
400	58.5	60.3	62.1	63.8	65.6	67.3	68.9	70.5	72.1	73.6
500	75.1	76.6	78.0	79.3	80.6	81.8	83.0	84.2	85.3	86.3