

Reference: KISSJ24Y
Crude: Kissanje Blend



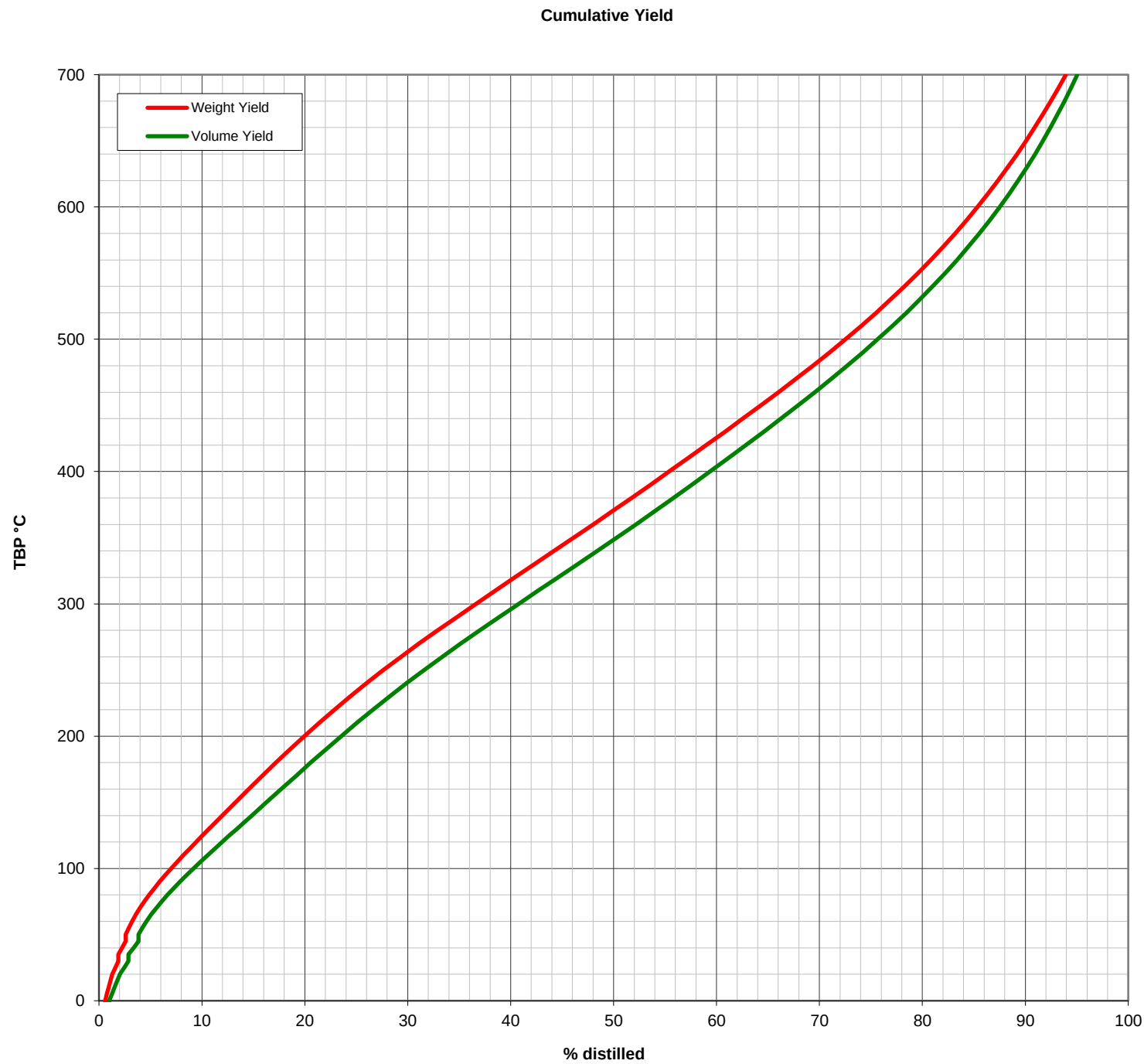
Crude Summary Report

General Information				Molecules (%wt on crude)							Whole Crude Properties					
Reference:	KISSJ24Y	methane + ethane		0.01		Density @ 15°C (g/cc)					0.8734					
Name:	Kissanje Blend														propane	
Origin:	Angola	isobutane		0.21		Total Sulfur (% wt)					0.35					
															n-butane	
isopentane		0.48		Viscosity @ 20°C (cSt)					23.8							
													n-pentane		0.56	
cyclopentane		0.10		Nickel (ppm)					15.9							
													C6 paraffins		1.04	
C6 naphthenes		0.85		Total Nitrogen (ppm)					1893							
													benzene		0.06	
C7 paraffins		0.95		Mercaptan Sulfur (ppm)					4.0							
													C7 naphthenes		1.78	
toluene		0.21		Reid Vapor Pressure (kPa)					52.2							
Cut Data			Atmospheric Cuts									Vacuum Cuts				
Start (°C)	IBP	C5	65	100	150	200	250	300	350	370	370	450	500	550		
End (°C)	FBP	65	100	150	200	250	300	350	370	FBP	450	500	550	FBP		
Yield (% wt)		2.5	3.5	6.2	6.7	7.7	9.0	9.5	3.8	50.1	14.4	8.2	7.0	20.4		
Yield (% vol)		3.3	4.1	7.1	7.3	8.1	9.2	9.5	3.7	46.0	13.9	7.7	6.6	17.8		
Cumulative Yield (% wt)		1.1	3.6	7.0	13.3	19.9	27.6	36.6	46.1	49.9	49.9	64.3	72.5	79.6		
Volume Average B.P. (°C)	358	41.1	84	125	175	226	275	325	360	531	409	474	524	654		
Density @ 15°C (g/cc)	0.8734	0.6478	0.7322	0.7673	0.8026	0.8319	0.8551	0.8666	0.8901	0.9496	0.9029	0.9264	0.9374	1.0009		
API Gravity	30.4	86.9	61.7	52.9	44.7	38.5	33.9	31.7	27.4	17.4	25.1	21.2	19.4	9.8		
UOPK	11.94			11.66	11.60	11.59	11.64	11.82	11.73	11.91	11.86	11.91	12.03	11.84		
Molecular Weight (g/mol)				109	137	169	207	254	286	538	344	440	557	1025		
Total Sulfur (% wt)	0.35	0.001	0.002	0.006	0.023	0.051	0.111	0.209	0.280	0.61	0.357	0.455	0.56	0.87		
Mercaptan Sulfur (ppm)	4.0	1.2	2.9	4.0	3.3	2.4	1.5									
Total Nitrogen (ppm)	1893					15	46	126	261	3723	723	1653	2563	7075		
Basic Nitrogen (ppm)	566					2	16	56	95	1108	246	566	718	2068		
Total Acid Number (mgKOH/g)	0.53	0.01	0.05	0.15	0.35	0.55	0.75	0.90	0.96	0.53	0.92	0.73	0.51	0.17		
Viscosity @ 20°C (cSt)	23.8	1.37									24.0 97.3 342 16.7 59.2 185 5.66 13.9 31.1 4868 690 257					
Viscosity @ 40°C (cSt)	10.9	1.05 1.68 3.11 6.68 12.8														
Viscosity @ 50°C (cSt)	7.98	1.46 2.57 5.17 9.32 824														
Viscosity @ 60°C (cSt)		410														
Viscosity @ 100°C (cSt)		53.9														
Viscosity @ 130°C (cSt)																
Viscosity @ 150°C (cSt)																
RON (Clear)		77.3	58.2	65.3	51.1											
MON (Clear)		75.7	67.9	62.2	46.2											
Paraffins (% wt)	20.4	94.4	46.3	25.2	29.9											
Naphthenes (%wt)	40.3	5.6	51.6	61.7	53.1											
Aromatics (% wt)	39.3	0.0	2.0	13.1	17.0											
Pour Point (°C)	-14	-66 -40 -17 -3 35									18	37	48	58		
Cloud Point (°C)		-63 -38 -15														
Freeze Point (°C)		-85 -58 -33														
Smoke Point (mm)		22 19 15														
Cetane Index (D4737A)		33 40 47 57 57														
Naphthalenes (% vol)		0.1 2.9 9.2 12.8														
Aniline Point (°C)		45.3 48.7 57.1 67.6 75.8 79.1									84.7	91.6	95.3			
Hydrogen (% wt)	13.1	16.5	15.1	14.1	13.8	13.5	13.4	13.2	12.8		12.8	12.6	12.6			
Total Wax (% wt)	5.6										6.8	11.1	11.0	7.8	1.6	
C7 Asphaltenes (% wt)	0.3										0.6		0.0	0.0	1.6	
Micro Carbon Residue (% wt)	3.8										7.6		0.1	1.1	18.2	
Vanadium (ppm)	4.0										8.0		0.0	0.0	19.6	
Nickel (ppm)	15.9										31.6		0.0	0.0	77.6	
Iron (ppm)	6.6										13.3		0.0	0.0	32.5	
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				2.9	3.4	3.8	4.6	5.6	6.7	7.9
100	9.2	10.6	12.0	13.4	14.8	16.3	17.7	19.1	20.6	22.0
200	23.5	25.1	26.6	28.2	29.9	31.6	33.4	35.2	37.0	38.9
300	40.8	42.7	44.6	46.5	48.4	50.3	52.2	54.0	55.8	57.6
400	59.4	61.1	62.9	64.6	66.3	67.9	69.5	71.1	72.7	74.2
500	75.7	77.1	78.4	79.7	81.0	82.2	83.4	84.5	85.5	86.5