

Reference: BONGA25Y
Crude: Bonga



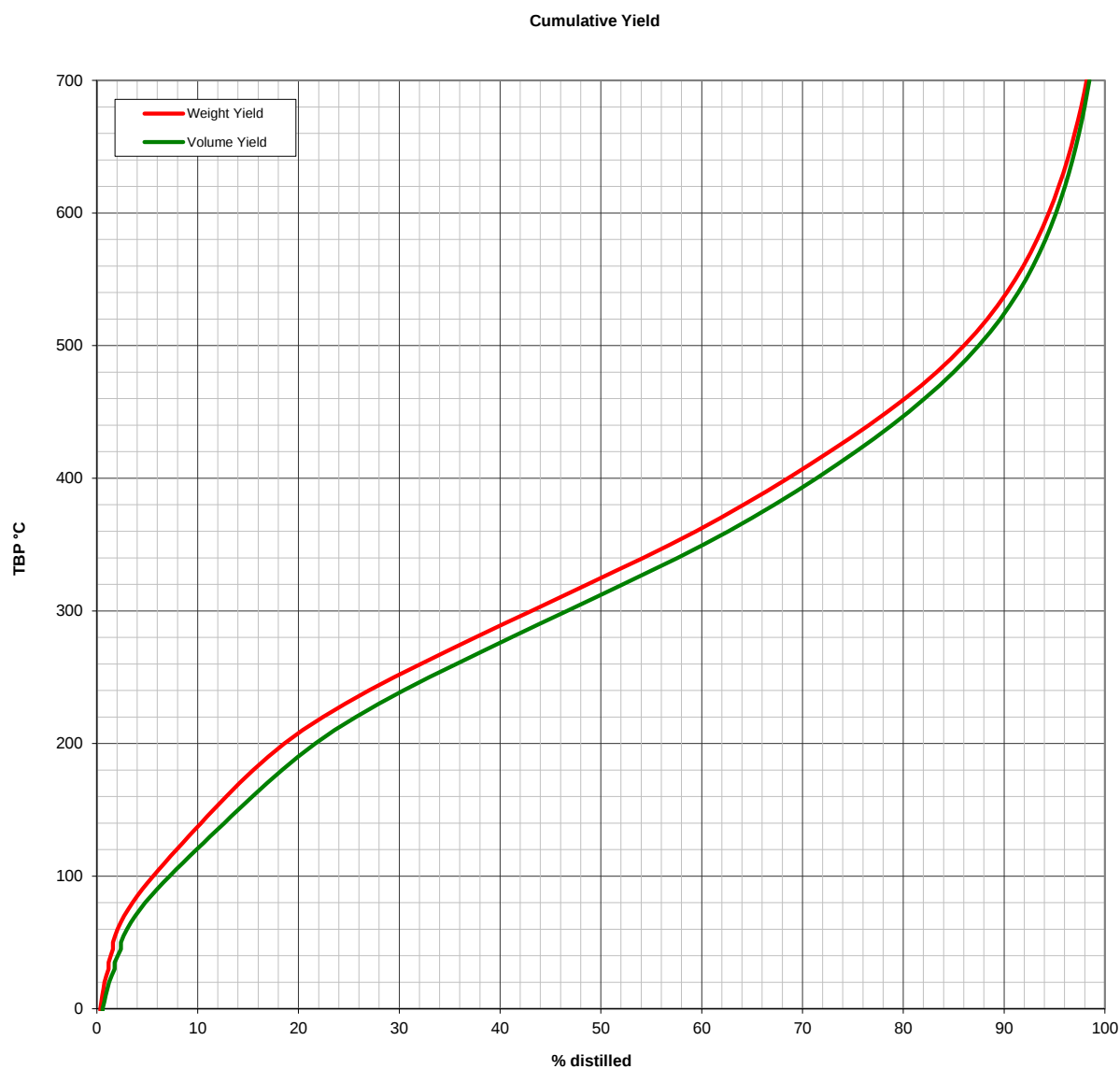
Crude Summary Report

General Information				Molecules (%wt on crude)						Whole Crude Properties						
Reference:	BONGA25Y	methane + ethane				0.01		Density @ 15°C (g/cc)				0.8884				
Name:	Bonga	propane				0.17		API Gravity				27.7				
Origin:	Nigeria	isobutane				0.17		Total Sulfur (% wt)				0.26				
		n-butane				0.42		Pour Point (°C)				-44				
Assay Date:	3/21/2025	isopentane				0.40		Viscosity @ 20°C (cSt)				13.9				
		n-pentane				0.42		Viscosity @ 40°C (cSt)				7.3				
Comments:		cyclopentane				0.10		Nickel (ppm)				3.5				
		C6 paraffins				0.90		Vanadium (ppm)				0.3				
		C6 naphthenes				0.95		Total Nitrogen (ppm)				1462				
		benzene				0.11		Total Acid Number (mgKOH/g)				0.51				
		C7 paraffins				0.78		Mercaptan Sulfur (ppm)				7.0				
		C7 naphthenes				1.77		Hydrogen Sulfide (ppm)				0.0				
		toluene				0.61		Reid Vapor Pressure (kPa)				28.9				
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)		1.7	3.2	6.0	7.0	10.9	13.6	13.8	5.0	38.1	16.6	7.6	5.1	8.9		
Yield (% vol)		2.3	3.8	6.8	7.7	11.3	13.6	13.6	4.8	35.0	15.6	7.0	4.7	7.8		
Cumulative Yield (% wt)		0.7	2.4	5.6	11.6	18.6	29.5	43.1	56.9	61.9	61.9	78.4	86.0	91.1		
Volume Average B.P. (°C)	321	42.5	84	125	176	227	275	325	360	488	408	474	523	637		
Density @ 15°C (g/cc)	0.8884	0.6514	0.7419	0.7790	0.8141	0.8520	0.8835	0.8998	0.9215	0.9650	0.9433	0.9685	0.9670	1.0038		
API Gravity	27.7	85.7	59.2	50.1	42.2	34.5	28.6	25.7	22.0	15.1	18.4	14.5	14.8	9.4		
UOPK	11.51			11.49	11.44	11.32	11.26	11.38	11.33	11.50	11.34	11.39	11.65	11.74		
Molecular Weight (g/mol)				109	136	167	200	243	274	428	323	411	529	914		
Total Sulfur (% wt)	0.26	0.000	0.002	0.011	0.037	0.085	0.179	0.279	0.320	0.453	0.327	0.417	0.52	0.68		
Mercaptan Sulfur (ppm)	7.0	0.0	0.0	0.2	2.3	5.1	4.1									
Total Nitrogen (ppm)	1462					21	69	232	490	3653	1270	2800	4170	8533		
Basic Nitrogen (ppm)	567					17	55	170	318	1359	571	1027	1546	3006		
Total Acid Number (mgKOH/g)	0.51	0.00	0.02	0.05	0.09	0.15	0.30	0.57	0.65	0.87	0.81	1.22	1.00	0.63		
Viscosity @ 20°C (cSt)	13.9					1.45										
Viscosity @ 40°C (cSt)	7.32					1.09	1.79	3.47	8.95	23.4						
Viscosity @ 50°C (cSt)	5.63						1.53	2.80	6.57	15.4	785	74.3	734	2493		
Viscosity @ 60°C (cSt)										356	43.4	329	990			
Viscosity @ 100°C (cSt)										38.7	9.53	35.3	74.8	2502		
Viscosity @ 130°C (cSt)														346		
Viscosity @ 150°C (cSt)														130		
RON (Clear)		77.8	61.1	68.3	54.1											
MON (Clear)		76.6	69.7	62.7	48.5											
Paraffins (% wt)	13.1	93.4	39.0	17.7	20.5											
Naphthenes (%wt)	45.4	6.6	57.2	63.6	62.8											
Aromatics (% wt)	41.5	0.0	3.8	18.7	16.7											
Pour Point (°C)	-44					-65	-42	-18	-3	31	18	38	47	50		
Cloud Point (°C)						-63	-40	-16								
Freeze Point (°C)						-80	-58	-36								
Smoke Point (mm)						20	17	14								
Cetane Index (D4737A)						29	33	36	43	44						
Naphthalenes (% vol)						0.1	3.1	8.0	10.1							
Aniline Point (°C)						43.6	45.9	52.3	57.1	60.6	64.7	72.8	78.8	79.2		
Hydrogen (% wt)	12.6	16.5	14.8	13.7	13.7	13.0	12.9	12.4	12.1		11.8	11.5	11.8			
Total Wax (% wt)	2.8									1.8	3.2	2.1	0.2	0.0		
C7 Asphaltenes (% wt)	0.0									0.0	0.0	0.0	0.0			
Micro Carbon Residue (% wt)	1.4									3.7	0.1	1.8	14.7			
Vanadium (ppm)	0.3									0.9	0.0	0.0	3.8			
Nickel (ppm)	3.5									9.3	0.0	0.0	39.9			
Iron (ppm)	7.4									19.5	0.0	0.0	83.6			
Sodium (ppm)	0.4															
Mercury (ppb)	1.0															
Arsenic (ppb)	213															

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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				1.8	2.1	2.4	3.0	3.8	4.8	6.0
100	7.2	8.5	9.9	11.3	12.6	14.0	15.4	16.9	18.4	19.9
200	21.7	23.6	25.7	28.0	30.4	33.0	35.7	38.4	41.1	43.9
300	46.6	49.4	52.2	54.9	57.6	60.2	62.7	65.0	67.2	69.3
400	71.4	73.4	75.3	77.1	78.9	80.5	82.1	83.6	85.0	86.3
500	87.5	88.6	89.6	90.5	91.4	92.2	92.9	93.5	94.1	94.7