

Reference: BANYU24B
Crude: Banyu Urip



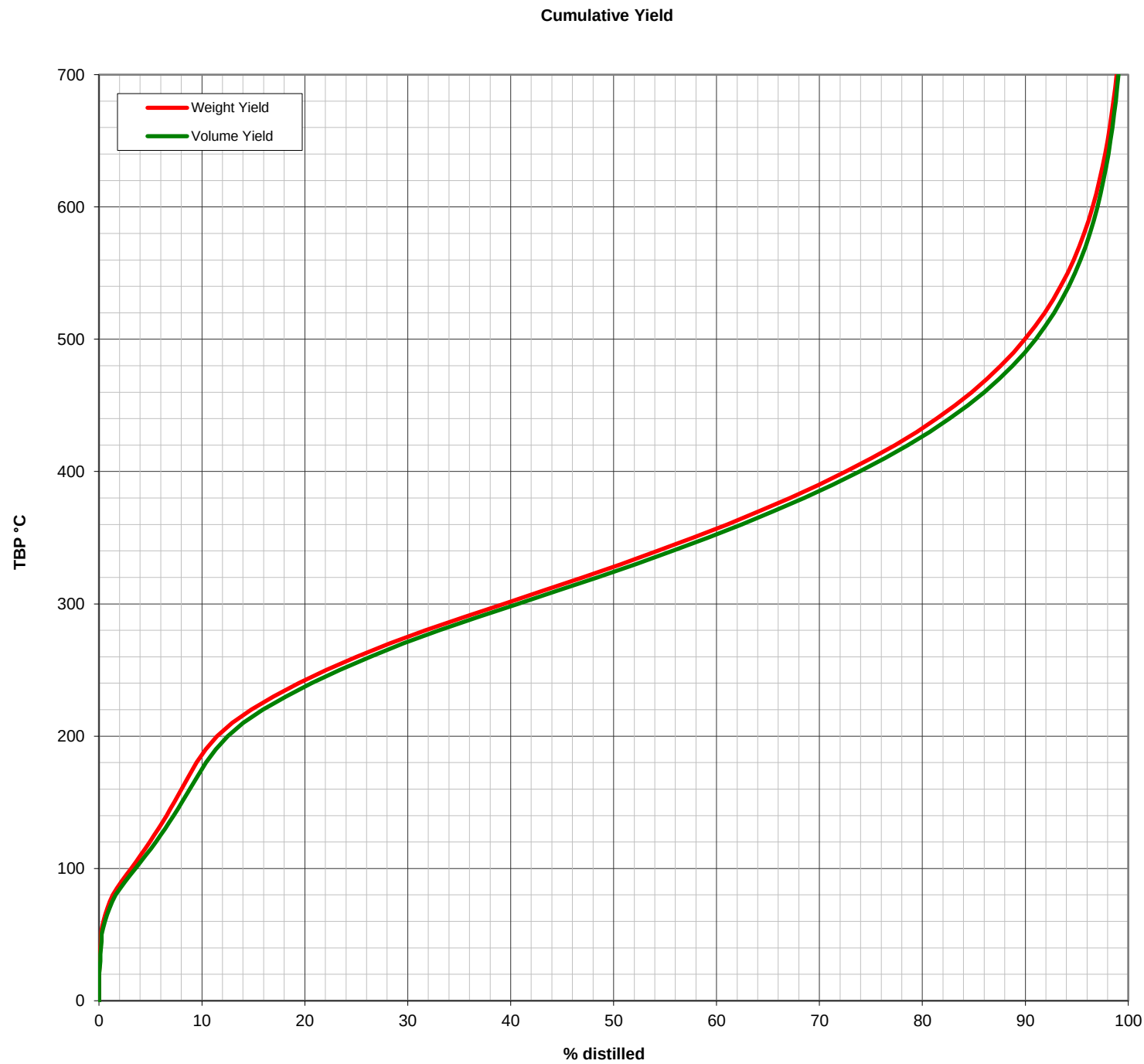
Crude Summary Report

General Information				Molecules (%wt on crude)							Whole Crude Properties										
Reference:	BANYU24B			methane + ethane			0.00		Density @ 15°C (g/cc)			0.8607									
Name:	Banyu Urip			propane			0.00		API Gravity			32.8									
Origin:	Indonesia			isobutane			0.00		Total Sulfur (% wt)			0.32									
				n-butane			0.01		Pour Point (°C)			27									
				isopentane			0.04		Viscosity @ 20°C (cSt)			46.3									
Assay Date:	6/26/2024			n-pentane			0.06		Viscosity @ 40°C (cSt)			8.4									
Comments:				cyclopentane			0.02		Nickel (ppm)			0.2									
				C6 paraffins			0.34		Vanadium (ppm)			0.2									
				C6 naphthenes			0.32		Total Nitrogen (ppm)			316									
				benzene			1.07		Total Acid Number (mgKOH/g)			0.05									
				C7 paraffins			0.47		Mercaptan Sulfur (ppm)			74.6									
				C7 naphthenes			0.66		Hydrogen Sulfide (ppm)			0.0									
				toluene			0.90		Reid Vapor Pressure (kPa)			3.5									
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)			0.6	2.5	4.2	4.2	10.6	17.2	18.4	6.4	35.8	19.0	6.8	4.1	5.9						
Yield (% vol)			0.8	2.8	4.5	4.5	10.9	17.3	18.5	6.4	34.5	18.9	6.6	3.8	5.2						
Cumulative Yield (% wt)			0.0	0.6	3.1	7.3	11.5	22.1	39.3	57.7	64.2	64.2	83.2	90.0	94.1						
Volume Average B.P. (°C)		332	50.6	85	124	177	228	276	324	360	466	406	473	523	633						
Density @ 15°C (g/cc)		0.8607	0.6786	0.7776	0.7986	0.8082	0.8394	0.8567	0.8567	0.8667	0.8949	0.8670	0.8862	0.9300	0.9815						
API Gravity		32.8	77.0	50.4	45.6	43.5	37.0	33.6	33.6	31.7	26.5	31.6	28.1	20.6	12.6						
UOPK		11.95			11.19	11.53	11.50	11.62	11.95	12.04	12.28	12.33	12.44	12.12	11.98						
Molecular Weight (g/mol)					107	137	170	207	256	295	438	356	465	560	923						
Total Sulfur (% wt)		0.32	0.014	0.022	0.036	0.049	0.070	0.210	0.491	0.51	0.417	0.245	0.349	0.62	0.91						
Mercaptan Sulfur (ppm)		74.6	90.3	77.1	85.9	165.6	100.5	41.9													
Total Nitrogen (ppm)		316					3	7	65	187	809	304	616	1183	2396						
Basic Nitrogen (ppm)		101					3	4	30	127	240	165	163	500	385						
Total Acid Number (mgKOH/g)		0.05	0.00	0.03	0.10	0.12	0.02	0.02	0.03	0.04	0.08	0.05	0.09	0.12	0.15						
Viscosity @ 20°C (cSt)		46.3	1.34																		
Viscosity @ 40°C (cSt)		8.44	1.04									1.57	2.64	4.87	8.06						
Viscosity @ 50°C (cSt)		4.77										1.38	2.23	3.91	6.21	37.5	11.9	37.8	130		
Viscosity @ 60°C (cSt)																25.4	8.91	25.6	78.1		
Viscosity @ 100°C (cSt)																8.00	3.76	8.05	17.6		
Viscosity @ 130°C (cSt)																					301
Viscosity @ 150°C (cSt)																					76.1
																					38.1
RON (Clear)			78.3	53.2	81.7	44.9															
MON (Clear)			78.5	62.2	70.2	44.3															
Paraffins (% wt)		41.2	94.3	29.5	22.0	49.6															
Naphthenes (%wt)		25.2	5.7	20.7	28.6	20.4															
Aromatics (% wt)		33.6	0.0	49.8	49.4	29.9															
Pour Point (°C)		27										-40	-18	10	28	58	46	60	67	51	
Cloud Point (°C)												-36	-14	13							
Freeze Point (°C)												-50	-33	-12							
Smoke Point (mm)												20	18	15							
Cetane Index (D4737A)												32	38	47	62	69					
Naphthalenes (% vol)												2.0	10.9	14.8	16.0						
Aniline Point (°C)												37.4	41.5	52.4	65.6	79.6	89.0	103.2	112.1	105.5	
Hydrogen (% wt)		13.0	16.4	11.6	12.1	13.6	12.8	13.1	13.2	13.3			13.3	13.4	12.7						
Total Wax (% wt)		43.9															50.0	60.9	47.7	38.3	25.6
C7 Asphaltenes (% wt)		0.2															0.6		0.0	0.0	3.7
Micro Carbon Residue (% wt)		1.5															4.0		0.2	3.1	22.2
Vanadium (ppm)		0.2															0.5		0.0	0.0	2.8
Nickel (ppm)		0.2															0.6		0.0	0.0	3.6
Iron (ppm)		0.0															0.0		0.0	0.0	0.2
Sodium (ppm)		0.7																			
Mercury (ppb)		5.7																			
Arsenic (ppb)		42																			

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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				0.1	0.2	0.3	0.6	1.0	1.6	2.5
100	3.6	4.6	5.5	6.4	7.3	8.1	8.8	9.6	10.4	11.3
200	12.5	14.0	15.9	18.2	20.7	23.4	26.3	29.6	33.1	36.8
300	40.7	44.6	48.4	52.1	55.7	59.2	62.4	65.5	68.5	71.3
400	73.9	76.3	78.6	80.7	82.6	84.4	86.0	87.5	88.8	90.0
500	91.0	92.0	92.8	93.6	94.2	94.8	95.4	95.8	96.3	96.7