

## Crude Summary Report

General Information		Molecules (%wt on crude)										Whole Crude Properties			
Reference:	DALIA26Y	methane + ethane	0.00	Density @ 15°C (g/cc)	0.9178										
Name:	Dalia	propane	0.00	<b>API Gravity</b>	<b>22.6</b>										
Origin:	Angola	isobutane	0.04	Total Sulfur (% wt)	0.52										
Assay Date:	3/27/2026	n-butane	0.14	Pour Point (°C)	-48										
Comments:		isopentane	0.13	Viscosity @ 20°C (cSt)	141.6										
		n-pentane	0.15	Viscosity @ 40°C (cSt)	46.9										
		cyclopentane	0.03	Nickel (ppm)	20.3										
		C6 paraffins	0.20	Vanadium (ppm)	8.4										
		C6 naphthenes	0.29	Total Nitrogen (ppm)	2338										
		benzene	0.00	Total Acid Number (mgKOH/g)	1.50										
		C7 paraffins	0.21	Mercaptan Sulfur (ppm)	4.0										
		C7 naphthenes	0.70	Hydrogen Sulfide (ppm)	0.0										
		toluene	0.12	Reid Vapor Pressure (kPa)	7.3										

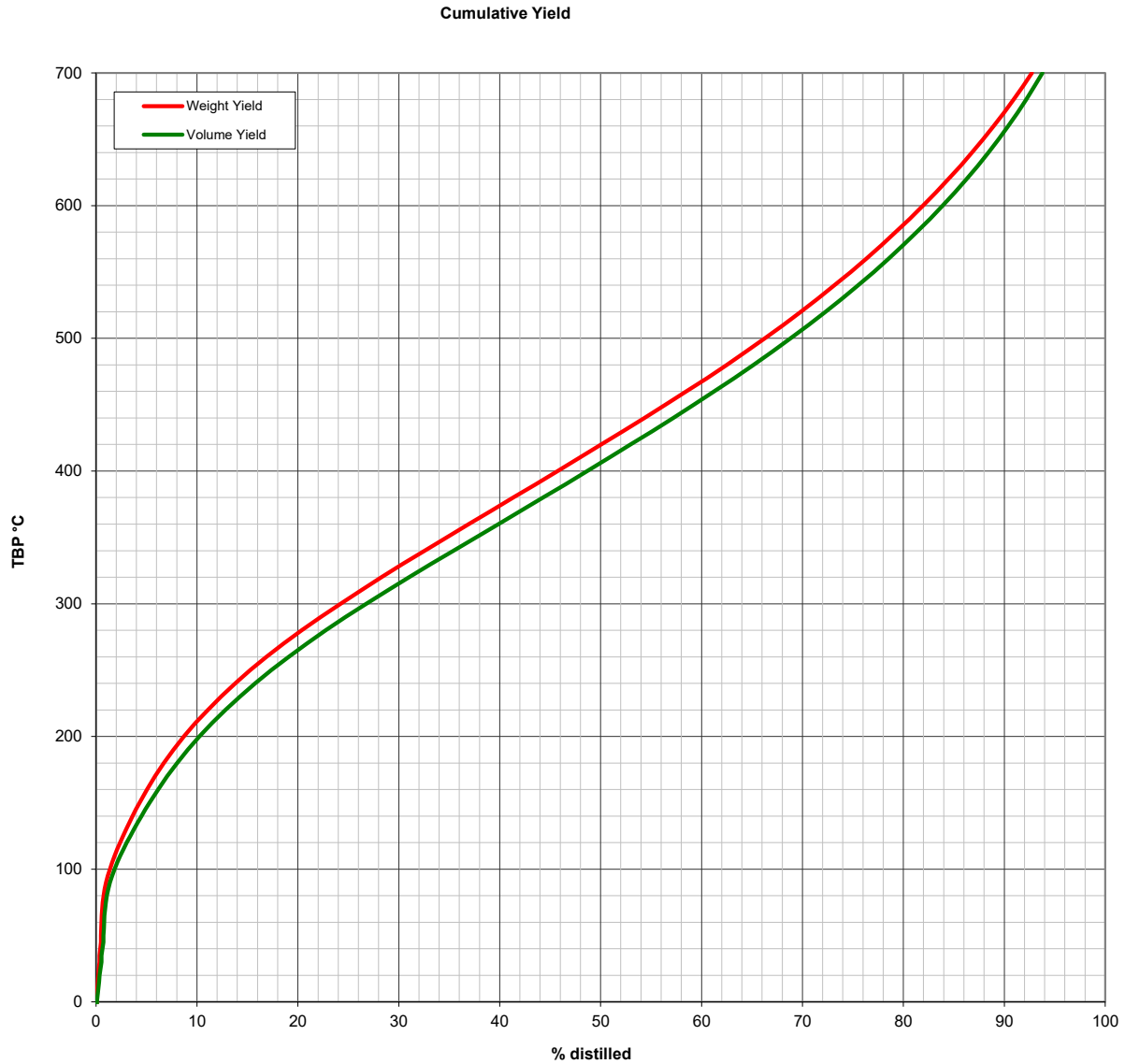
  

Cut Data	IBP FBP	Atmospheric Cuts										Vacuum Cuts				
		IBP C4	C5 65	65 100	100 150	150 200	200 250	250 300	300 350	350 370	370 FBP	370 450	450 500	500 550	550 FBP	
Yield (% wt)		0.2	0.4	0.8	2.9	4.4	6.6	8.9	10.5	4.4	60.8	17.3	9.8	8.5	25.2	
Yield (% vol)		0.3	0.5	1.0	3.5	4.9	7.1	9.4	10.9	4.4	57.9	17.2	9.6	8.2	22.9	
Cumulative Yield (% wt)		0.2	0.6	1.4	4.3	8.7	15.3	24.2	34.7	39.2	100.0	56.4	66.3	74.8	100.0	
Volume Average B.P. (°C)	416	35.5	87	127	177	226	276	325	360	533	409	474	524	653		
Density @ 15°C (g/cc)	0.9178	0.6368	0.7486	0.7755	0.8160	0.8453	0.8716	0.8863	0.9100	0.9632	0.9238	0.9410	0.9471	1.0077		
API Gravity	22.6	90.7	57.5	50.9	41.8	35.8	30.8	28.1	23.9	15.3	21.6	18.8	17.8	8.8		
UOPK	11.70			11.55	11.42	11.41	11.42	11.56	11.47	11.75	11.59	11.73	11.90	11.76		
Molecular Weight (g/mol)				110	136	167	204	248	279	528	334	431	549	1006		
Total Sulfur (% wt)	0.5	0.006	0.011	0.020	0.039	0.074	0.152	0.326	0.437	0.72	0.498	0.59	0.69	0.94		
Mercaptan Sulfur (ppm)	4.0		17.6	12.0	8.6	3.5	1.4									
Total Nitrogen (ppm)	2338					3	18	90	233	3806	790	1713	2514	7125		
Basic Nitrogen (ppm)	725					2	13	58	127	1170	305	591	842	2101		
Total Acid Number (mgKOH/g)	1.50	0.01	0.06	0.24	0.70	1.39	2.20	2.82	2.97	1.23	2.59	1.70	1.07	0.16		
Viscosity @ 20°C (cSt)	142					1.48										
Viscosity @ 40°C (cSt)	46.9					1.11	1.75	3.25	7.58	16.5						
Viscosity @ 50°C (cSt)	30.2						1.50	2.65	5.71	11.5	1117	37.0	171	497		
Viscosity @ 60°C (cSt)											524	24.0	95.4	253		
Viscosity @ 100°C (cSt)											59.6	6.85	17.9	36.2	2653	
Viscosity @ 130°C (cSt)															423	
Viscosity @ 150°C (cSt)															167	
RON (Clear)		79.3	74.6	64.7	65.8											
MON (Clear)		77.6	75.5	62.5	52.0											
Paraffins (% wt)	11.2	92.6	30.6	13.0	14.6											
Naphthenes (%wt)	39.9	7.4	69.1	79.2	73.9											
Aromatics (% wt)	49.0	0.0	0.3	7.7	11.5											
Pour Point (°C)	-48							-93	-75	-57	-47	11	-29	-8	6	61
Cloud Point (°C)								-91	-72	-54						
Freeze Point (°C)								-103	-88	-69						
Smoke Point (mm)								23	18	14						
Cetane Index (D4737A)								28	35	41	49	48				
Naphthalenes (% vol)								0.2	3.4	9.2	11.7					
Aniline Point (°C)				48.5	48.6	52.7	58.3	64.9	69.3		76.8	85.2	88.7			
Hydrogen (% wt)	12.6	16.5	14.9	14.2	13.9	13.1	13.0	12.7	12.3		12.3	12.2	12.2			
Total Wax (% wt)	1.4										1.9	1.9	1.8	2.1	1.9	
C7 Asphaltenes (% wt)	0.7										1.1	0.0	0.0	2.7		
Micro Carbon Residue (% wt)	4.8										7.8	0.3	1.7	18.3		
Vanadium (ppm)	8.4										13.8	0.0	0.0	33.4		
Nickel (ppm)	20.3										33.4	0.0	0.0	80.4		
Iron (ppm)	6.3										10.3	0.0	0.0	24.9		
Sodium (ppm)	1.0															
Mercury (ppb)	1.0															
Arsenic (ppb)	135															

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Reference: **DALIA26Y**  
 Crude: **Dalia**

## Yield Distribution



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

	0	10	20	30	40	50	60	70	80	90
0				0.5	0.6	0.7	0.8	0.9	1.1	1.4
100	1.8	2.4	3.0	3.8	4.5	5.3	6.1	7.1	8.0	9.1
200	10.2	11.5	12.8	14.2	15.8	17.4	19.1	20.9	22.8	24.7
300	26.8	28.9	31.0	33.2	35.4	37.6	39.9	42.1	44.3	46.5
400	48.7	50.8	53.0	55.1	57.2	59.2	61.3	63.2	65.2	67.0
500	68.8	70.6	72.3	73.9	75.5	77.1	78.5	80.0	81.3	82.6