

Reference: UNTGD24Z
Crude: Unity Gold



Crude Summary Report

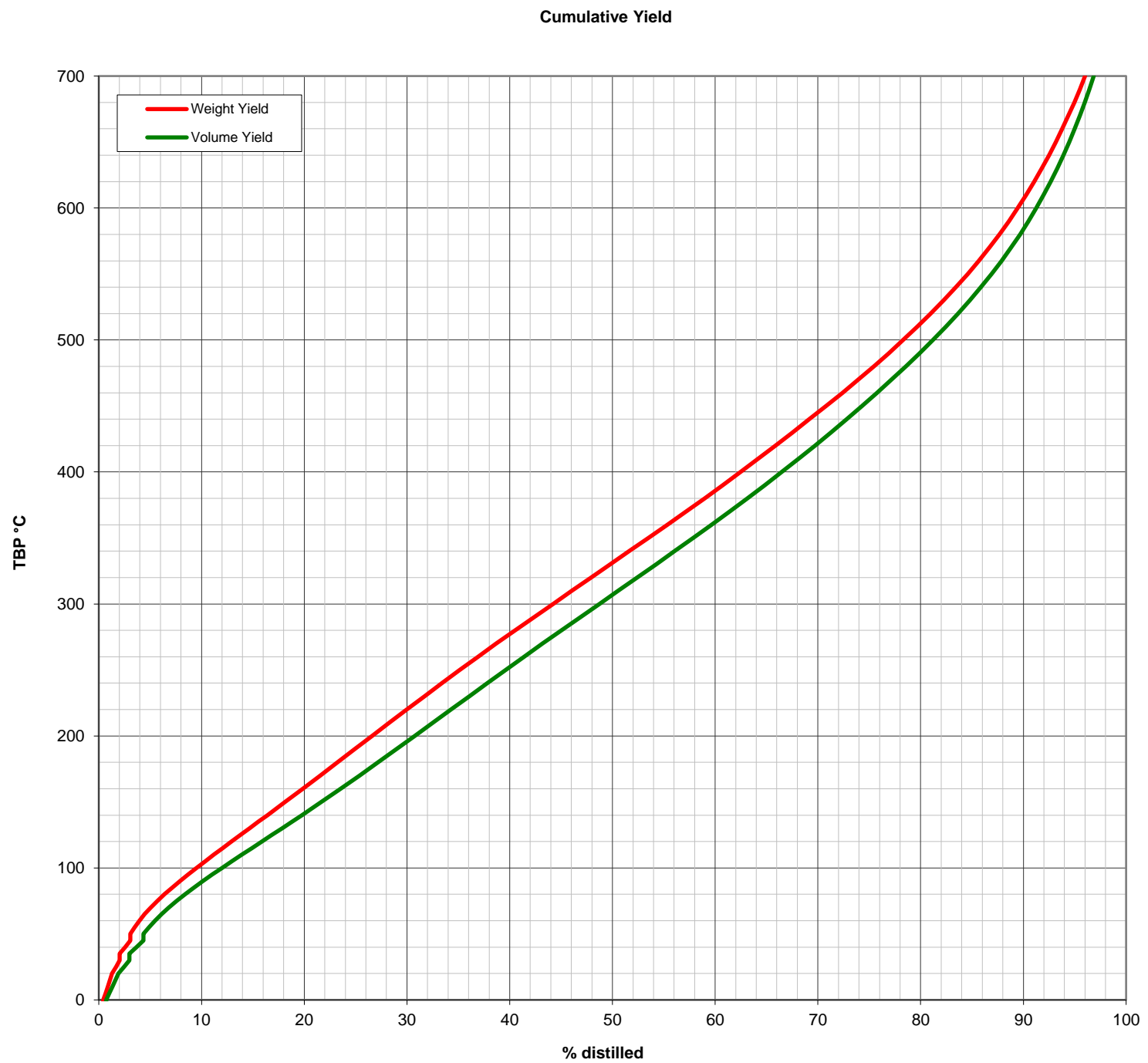
General Information		Molecules (%wt on crude)				Whole Crude Properties			
Reference:	UNTGD24Z	methane + ethane	0.00	Density @ 15°C (g/cc)	0.8546				
Name:	Unity Gold	propane	0.23	API Gravity	34.0				
Origin:	Guyana	isobutane	0.21	Total Sulfur (% wt)	0.41				
Assay Date:	5/22/2024	n-butane	0.91	Pour Point (°C)	-11				
Comments:		isopentane	0.85	Viscosity @ 20°C (cSt)	11.1				
		n-pentane	1.12	Viscosity @ 40°C (cSt)	5.8				
		cyclopentane	0.18	Nickel (ppm)	9.9				
		C6 paraffins	1.98	Vanadium (ppm)	14.5				
		C6 naphthenes	1.28	Total Nitrogen (ppm)	1480				
		benzene	0.09	Total Acid Number (mgKOH/g)	0.21				
		C7 paraffins	1.77	Mercaptan Sulfur (ppm)	6.0				
		C7 naphthenes	2.44	Hydrogen Sulfide (ppm)	0.0				
		toluene	0.36	Reid Vapor Pressure (kPa)	41.1				
				Salt (ptb)	20.0				

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)		3.4	5.0	8.6	8.5	8.5	9.1	9.3	3.7	42.8	13.6	7.5	6.3	15.4			
Yield (% vol)		4.5	5.9	9.7	9.1	8.9	9.1	9.1	3.5	38.6	12.9	6.9	5.7	13.1			
Cumulative Yield (% wt)		1.1	4.5	9.5	18.1	26.6	35.1	44.2	53.5	57.2	57.2	70.8	78.3	84.6			
Volume Average B.P. (°C)	322	42.0	83	125	175	225	275	325	360	518	409	474	524	646			
Density @ 15°C (g/cc)	0.8546	0.6458	0.7279	0.7582	0.7916	0.8211	0.8479	0.8621	0.8841	0.9436	0.8981	0.9253	0.9354	1.0016			
API Gravity	34.0	87.6	62.9	55.1	47.2	40.8	35.3	32.6	28.5	18.4	26.0	21.3	19.7	9.7			
UOPK	11.97			11.80	11.75	11.74	11.74	11.88	11.81	11.92	11.92	11.93	12.05	11.80			
Molecular Weight (g/mol)				110	138	170	208	255	288	514	345	441	558	984			
Total Sulfur (% wt)	0.41	0.000	0.000	0.003	0.018	0.064	0.171	0.321	0.404	0.81	0.471	0.58	0.73	1.24			
Mercaptan Sulfur (ppm)	6.0																
Total Nitrogen (ppm)	1480					10	67	326	664	3313	1268	2040	2657	6003			
Basic Nitrogen (ppm)	464					11	53	127	202	1025	375	627	849	1864			
Total Acid Number (mgKOH/g)	0.21	0.01	0.04	0.08	0.13	0.18	0.22	0.27	0.31	0.27	0.34	0.34	0.31	0.17			
Viscosity @ 20°C (cSt)	11.1				1.37												
Viscosity @ 40°C (cSt)	5.76				1.05	1.63	2.91	6.13	11.6								
Viscosity @ 50°C (cSt)	4.42					1.41	2.41	4.76	8.51	444							
Viscosity @ 60°C (cSt)										232	22.0	96.4	325				
Viscosity @ 100°C (cSt)										35.4	15.3	58.1	174				
Viscosity @ 130°C (cSt)											5.25	13.3	29.0	2528			
Viscosity @ 150°C (cSt)														407			
RON (Clear)		75.9	52.0	59.0	38.3												
MON (Clear)		74.2	63.2	57.3	35.7												
Paraffins (% wt)	31.5	94.5	51.0	30.7	43.2												
Naphthenes (%wt)	37.2	5.5	47.2	57.8	41.5												
Aromatics (% wt)	31.3	0.0	1.8	11.5	15.3												
Pour Point (°C)	-11					-50	-26	-2	11	40	31	49	56	73			
Cloud Point (°C)						-48	-23	0									
Freeze Point (°C)						-62	-43	-20									
Smoke Point (mm)						26	22	17									
Cetane Index (D4737A)						37	44	50	59	60							
Naphthalenes (% vol)						0.1	4.5	8.8	8.2								
Aniline Point (°C)				49.0	51.5	57.3	66.9	75.5	76.9		84.0	97.9	101.9				
Hydrogen (% wt)	13.5	16.5	15.2	14.2	14.2	13.8	13.5	13.3	13.0		12.8	12.5	12.7				
Total Wax (% wt)	19.6									31.2	42.4	50.2	39.5	8.8			
C7 Asphaltenes (% wt)	0.9									2.0	0.0	0.0	5.6				
Micro Carbon Residue (% wt)	2.6									6.1	0.1	1.0	16.6				
Vanadium (ppm)	14.5									33.8	0.0	0.0	93.8				
Nickel (ppm)	9.9									23.1	0.0	0.0	64.1				
Iron (ppm)	0.8									1.8	0.0	0.0	5.1				
Sodium (ppm)	0.2																
Mercury (ppb)	1.0																
Arsenic (ppb)	5																

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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				3.0	3.7	4.3	5.5	6.8	8.4	10.1
100	12.0	13.9	15.9	17.8	19.8	21.7	23.5	25.4	27.2	29.0
200	30.8	32.5	34.3	36.1	37.8	39.6	41.4	43.2	45.0	46.9
300	48.7	50.6	52.4	54.2	56.1	57.9	59.6	61.4	63.1	64.8
400	66.5	68.1	69.7	71.3	72.8	74.3	75.8	77.2	78.6	79.9
500	81.2	82.4	83.6	84.8	85.9	86.9	87.9	88.8	89.7	90.5