

Reference: UNTGD25Y
Crude: Unity Gold



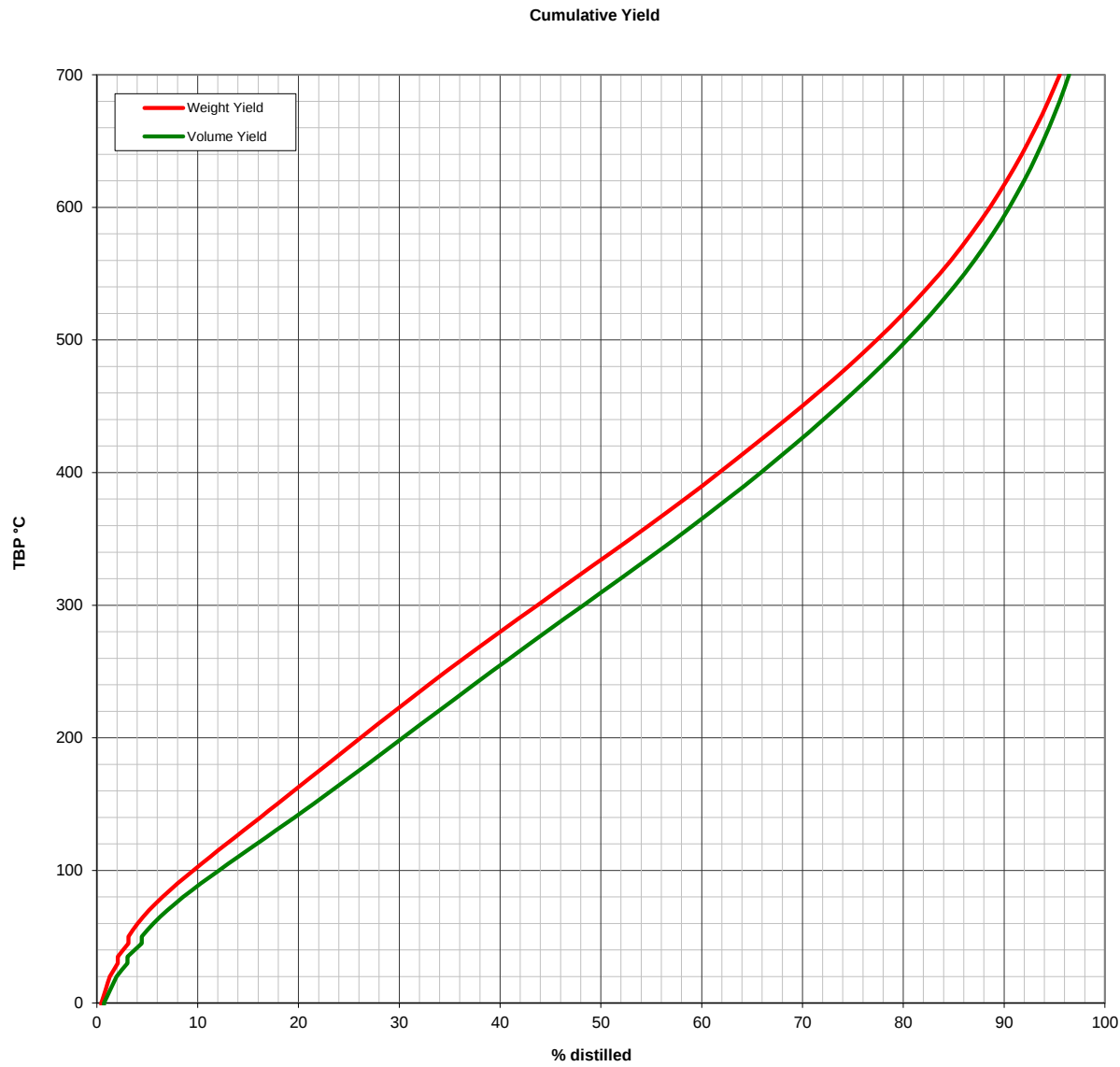
Crude Summary Report

General Information				Molecules (%wt on crude)							Whole Crude Properties					
Reference:	UNTGD25Y			methane + ethane							0.00	Density @ 15°C (g/cc)				0.8551
Name:	Unity Gold			propane							0.23	API Gravity				33.9
Origin:	Guyana			isobutane							0.21	Total Sulfur (% wt)				0.41
				n-butane							0.90	Pour Point (°C)				-37
Assay Date:	4/18/2025			isopentane							0.84	Viscosity @ 20°C (cSt)				11.2
				n-pentane							1.11	Viscosity @ 40°C (cSt)				5.9
Comments:				cyclopentane							0.18	Nickel (ppm)				10.6
				C6 paraffins							1.95	Vanadium (ppm)				15.4
				C6 naphthenes							1.26	Total Nitrogen (ppm)				1535
				benzene							0.09	Total Acid Number (mgKOH/g)				0.21
				C7 paraffins							1.74	Mercaptan Sulfur (ppm)				6.0
				C7 naphthenes							2.39	Hydrogen Sulfide (ppm)				0.0
				toluene							0.36	Reid Vapor Pressure (kPa)				41.3
												Salt (ptb)				20.0
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)		3.5	5.0	8.3	8.3	8.5	9.1	9.2	3.6	43.5		13.4	7.4	6.3	16.4	
Yield (% vol)		4.6	5.8	9.3	8.9	8.8	9.1	9.1	3.5	39.1		12.7	6.8	5.7	13.9	
Cumulative Yield (% wt)		1.1	4.6	9.6	17.9	26.2	34.6	43.7	52.9	56.5		56.5	69.9	77.4	83.6	
Volume Average B.P. (°C)	325	41.9	83	125	175	225	275	325	360	523		409	474	524	649	
Density @ 15°C (g/cc)	0.8551	0.6450	0.7270	0.7576	0.7910	0.8206	0.8476	0.8621	0.8844	0.9452		0.8987	0.9258	0.9354	1.0010	
API Gravity	33.9	87.9	63.1	55.2	47.3	40.9	35.4	32.6	28.4	18.1		25.9	21.3	19.7	9.8	
UOPK	11.98			11.81	11.76	11.75	11.74	11.88	11.80	11.92		11.91	11.92	12.05	11.82	
Molecular Weight (g/mol)				110	138	170	208	255	288	522		345	440	559	1000	
Total Sulfur (% wt)	0.41	0.000	0.000	0.003	0.018	0.063	0.168	0.314	0.394	0.80		0.458	0.57	0.71	1.22	
Mercaptan Sulfur (ppm)	6.0															
Total Nitrogen (ppm)	1535					10	67	326	665	3391		1271	2043	2654	6019	
Basic Nitrogen (ppm)	482					11	53	129	204	1051		377	628	848	1873	
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	0.16	
Viscosity @ 20°C (cSt)	11.2				1.37											
Viscosity @ 40°C (cSt)	5.89				1.05	1.63	2.91	6.13	11.6							
Viscosity @ 50°C (cSt)	4.53					1.41	2.41	4.76	8.51	528		22.1	96.4	325		
Viscosity @ 60°C (cSt)										271		15.3	58.1	175		
Viscosity @ 100°C (cSt)										39.5		5.25	13.4	29.0	2989	
Viscosity @ 130°C (cSt)															464	
Viscosity @ 150°C (cSt)															181	
RON (Clear)		75.9	52.0	59.0	38.3											
MON (Clear)		74.2	63.2	57.3	35.7											
Paraffins (% wt)	31.2	94.5	51.0	30.7	43.2											
Naphthenes (%wt)	37.0	5.5	47.3	57.8	41.6											
Aromatics (% wt)	31.8	0.0	1.8	11.5	15.2											
Pour Point (°C)	-37					-50	-26	-2	11	34		30	48	54	45	
Cloud Point (°C)						-47	-22	0								
Freeze Point (°C)						-62	-43	-20								
Smoke Point (mm)					26	22	17									
Cetane Index (D4737A)					38	45	50	59	60							
Naphthalenes (% vol)					0.1	4.5	8.8	8.1								
Aniline Point (°C)				49.0	51.5	57.3	66.8	75.4	76.7			83.9	97.9	101.9		
Hydrogen (% wt)	13.4	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)	19.1									29.9		41.5	49.2	38.9	8.4	
C7 Asphaltenes (% wt)	0.9										2.1		0.0	0.0	5.6	
Micro Carbon Residue (% wt)	2.9										6.6		0.1	1.0	17.0	
Vanadium (ppm)	15.4										35.4		0.0	0.0	93.8	
Nickel (ppm)	10.6										24.3		0.0	0.0	64.5	
Iron (ppm)	0.9										2.0		0.0	0.0	5.3	
Sodium (ppm)	0.2															
Mercury (ppb)	1.0															
Arsenic (ppb)	5															

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Reference: **UNTGD25Y**
Crude: **Unity Gold**

Yield Distribution



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

	0	10	20	30	40	50	60	70	80	90
0				3.0	3.7	4.5	5.6	7.0	8.6	10.3
100	12.1	14.0	15.9	17.7	19.6	21.5	23.3	25.1	26.8	28.6
200	30.4	32.1	33.9	35.6	37.4	39.2	41.0	42.8	44.6	46.4
300	48.3	50.1	51.9	53.8	55.6	57.4	59.1	60.9	62.6	64.2
400	65.9	67.5	69.0	70.6	72.1	73.6	75.0	76.4	77.8	79.1
500	80.4	81.6	82.8	83.9	85.0	86.1	87.1	88.0	88.9	89.7