

Reference: HOOP225Y
Crude: HOOPS Blend



Crude Summary Report

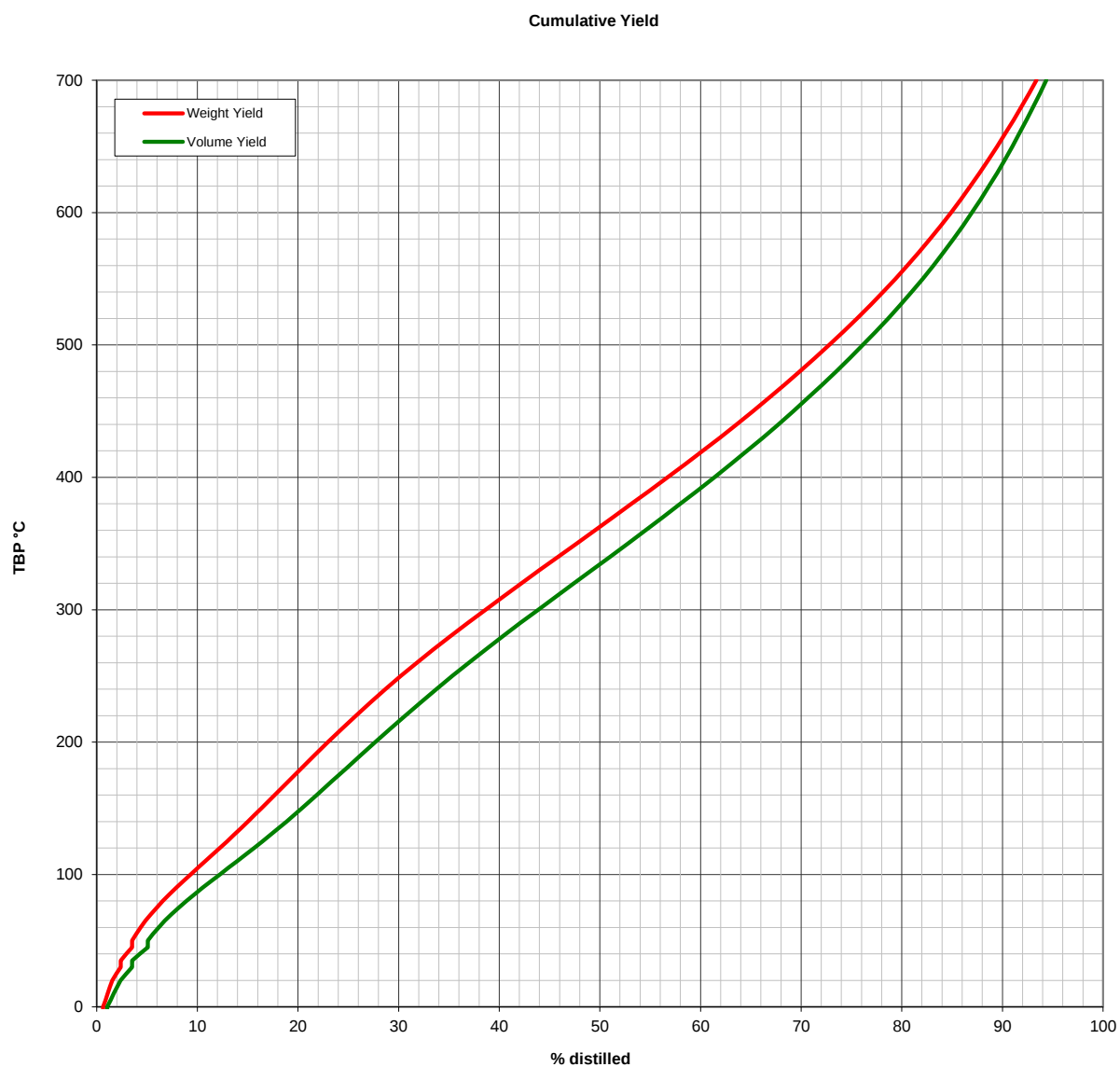
General Information		Molecules (%wt on crude)		Whole Crude Properties	
Reference:	HOOP225Y	methane + ethane	0.03	Density @ 15°C (g/cc)	0.8650
Name:	HOOPS Blend	propane	0.41	API Gravity	32.0
		isobutane	0.29	Total Sulfur (% wt)	1.45
Origin:	Texas	n-butane	1.03	Pour Point (°C)	-35
		isopentane	0.96	Viscosity @ 20°C (cSt)	10.9
Assay Date:	6/27/2025	n-pentane	1.34	Viscosity @ 40°C (cSt)	7.4
		cyclopentane	0.09	Nickel (ppm)	8.4
Comments:		C6 paraffins	2.78	Vanadium (ppm)	17.0
		C6 naphthenes	0.64	Total Nitrogen (ppm)	1145
		benzene	0.07	Total Acid Number (mgKOH/g)	0.70
		C7 paraffins	2.43	Mercaptan Sulfur (ppm)	36.4
		C7 naphthenes	1.13	Hydrogen Sulfide (ppm)	0.0
		toluene	0.30	Reid Vapor Pressure (kPa)	59.4

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	4.5	7.1	6.6	7.2	8.4	9.0	3.7	48.7		13.9	7.6	6.6	20.6
Yield (% vol)		4.7	5.5	8.2	7.3	7.7	8.5	8.9	3.5	43.7		12.9	6.9	5.9	17.9
Cumulative Yield (% wt)		1.3	4.8	9.3	16.4	23.0	30.2	38.6	47.7	51.3		51.3	65.2	72.8	79.4
Volume Average B.P. (°C)	346	41.2	83	124	175	225	275	325	360	538		409	474	524	660
Density @ 15°C (g/cc)	0.8650	0.6435	0.7074	0.7462	0.7829	0.8151	0.8532	0.8766	0.9009	0.9613		0.9260	0.9461	0.9570	0.9942
API Gravity	32.0	88.4	68.5	58.1	49.2	42.0	34.3	29.8	25.5	15.6		21.2	18.0	16.3	10.8
UOPK	11.98			11.98	11.89	11.83	11.67	11.69	11.59	11.79		11.56	11.66	11.78	11.95
Molecular Weight (g/mol)				110	139	172	207	251	282	532		332	427	540	1046
Total Sulfur (% wt)	1.4	0.002	0.007	0.022	0.062	0.184	0.64	1.12	1.38	2.52		1.64	1.89	2.22	3.43
Mercaptan Sulfur (ppm)	36.4	6.1	34.8	63.5	44.2	43.6	33.2								
Total Nitrogen (ppm)	1145					3	16	94	231	2314		553	1088	1483	4214
Basic Nitrogen (ppm)	292					2	11	38	74	585		166	312	416	1020
Total Acid Number (mgKOH/g)	0.70	0.00	0.00	0.00	0.01	0.26	0.80	1.29	1.45	0.91		1.51	1.41	1.12	0.26
Viscosity @ 20°C (cSt)	10.9				1.35										
Viscosity @ 40°C (cSt)	7.37				1.03	1.64	2.99	6.52	12.9						
Viscosity @ 50°C (cSt)	6.21					1.42	2.48	5.07	9.44	1231		26.7	131	488	
Viscosity @ 60°C (cSt)										570		18.3	76.3	248	
Viscosity @ 100°C (cSt)										62.4		6.04	16.1	35.6	3843
Viscosity @ 130°C (cSt)															498
Viscosity @ 150°C (cSt)															180
RON (Clear)		76.0	32.8	52.4	30.2										
MON (Clear)		73.3	48.2	53.3	31.6										
Paraffins (% wt)	26.6	97.8	76.6	48.9	47.8										
Naphthenes (%wt)	30.4	2.2	22.1	37.7	40.3										
Aromatics (% wt)	43.0	0.0	1.3	13.4	11.8										
Pour Point (°C)	-35					-46	-27	-7	3	28		17	35	48	67
Cloud Point (°C)						-43	-25	-5							
Freeze Point (°C)					-54	-39	-20								
Smoke Point (mm)					25	21	16								
Cetane Index (D4737A)					42	47	48	53	52						
Naphthalenes (% vol)					0.1	1.8	7.2	10.5							
Aniline Point (°C)				53.8	56.9	62.1	66.2	69.4	71.6			76.2	82.9	86.6	
Hydrogen (% wt)	13.1	16.6	15.7	14.4	14.3	13.8	13.3	12.9	12.6			12.2	12.1	12.1	
Total Wax (% wt)	5.4									3.0		6.8	5.2	1.9	0.1
C7 Asphaltenes (% wt)	0.5									1.0		0.0	0.0		2.3
Micro Carbon Residue (% wt)	4.5									9.3		0.3	2.2		21.1
Vanadium (ppm)	17.0									35.0		0.0	0.0		82.6
Nickel (ppm)	8.4									17.2		0.0	0.0		40.6
Iron (ppm)	2.2									4.6		0.0	0.0		10.8
Sodium (ppm)	3.0														
Mercury (ppb)	1.0														

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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				3.5	4.3	5.1	6.1	7.4	8.9	10.5
100	12.2	13.9	15.6	17.3	18.9	20.4	21.9	23.3	24.8	26.2
200	27.7	29.2	30.7	32.2	33.8	35.3	37.0	38.7	40.4	42.1
300	43.9	45.6	47.4	49.2	51.0	52.8	54.5	56.3	58.0	59.7
400	61.4	63.0	64.6	66.2	67.7	69.2	70.7	72.1	73.5	74.8
500	76.1	77.4	78.6	79.8	81.0	82.1	83.1	84.2	85.1	86.1