

Reference: HOOP325Y
Crude: HOOPS Blend



Crude Summary Report

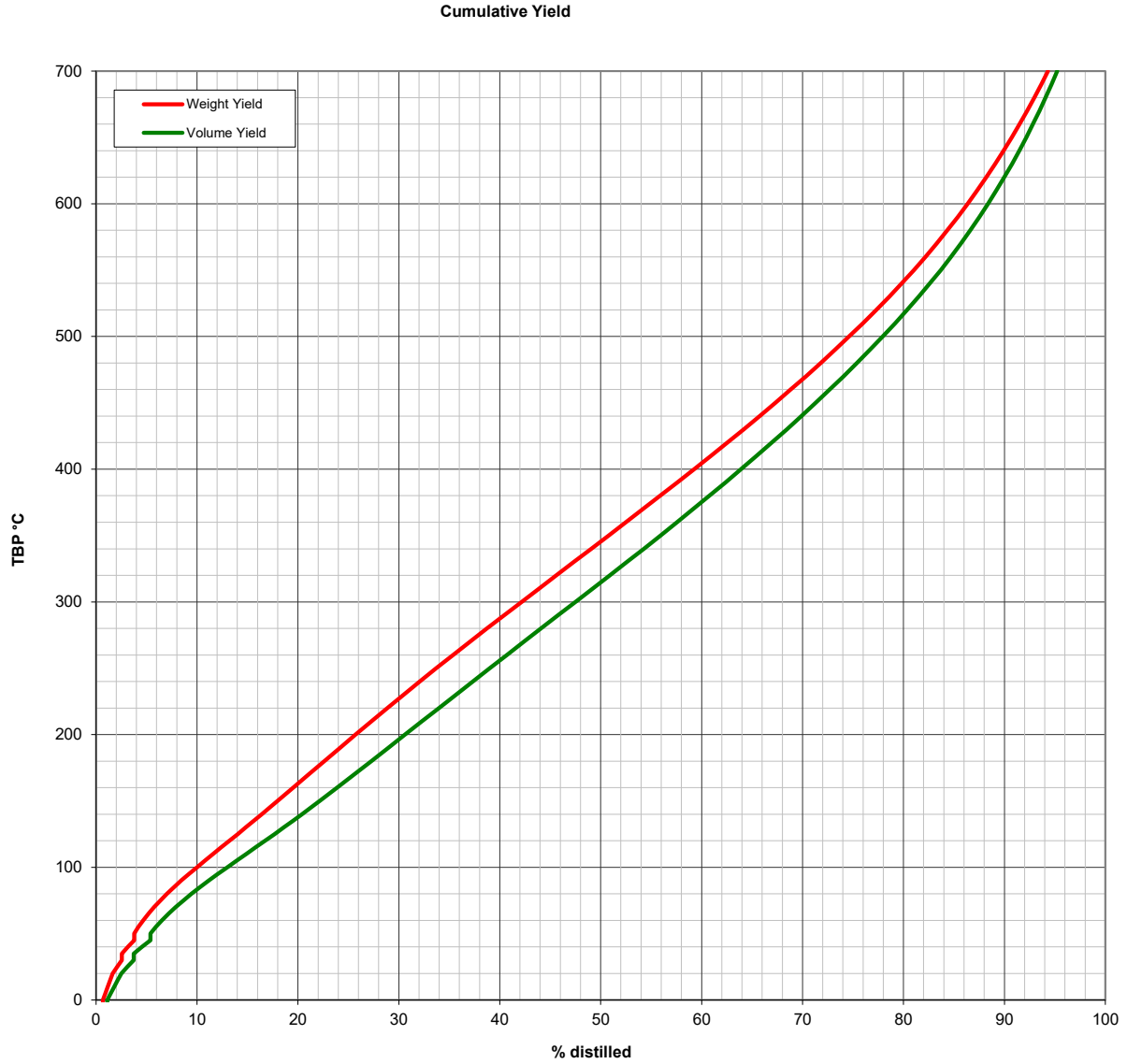
General Information		Molecules (%wt on crude)				Whole Crude Properties			
Reference:	HOOP325Y	methane + ethane	0.03	Density @ 15°C (g/cc)	0.8572				
Name:	HOOPS Blend	propane	0.33	API Gravity	33.5				
Origin:	Texas	isobutane	0.23	Total Sulfur (% wt)	1.45				
Assay Date:	8/28/2025	n-butane	0.82	Pour Point (°C)	-34				
Comments:		isopentane	0.99	Viscosity @ 20°C (cSt)	9.0				
		n-pentane	1.38	Viscosity @ 40°C (cSt)	5.7				
		cyclopentane	0.09	Nickel (ppm)	7.4				
		C6 paraffins	2.90	Vanadium (ppm)	15.3				
		C6 naphthenes	0.68	Total Nitrogen (ppm)	1058				
		benzene	0.07	Total Acid Number (mgKOH/g)	0.50				
		C7 paraffins	2.63	Mercaptan Sulfur (ppm)	32.0				
		C7 naphthenes	1.23	Hydrogen Sulfide (ppm)	0.0				
		toluene	0.34	Reid Vapor Pressure (kPa)	60.6				

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)		1.4	3.8	4.8	8.0	7.7	8.0	8.5	8.6	3.4	45.8	13.1	7.3	6.4	19.0
Yield (% vol)		2.2	5.0	5.8	9.2	8.5	8.4	8.5	8.4	3.3	40.8	12.1	6.6	5.7	16.3
Cumulative Yield (% wt)		1.4	5.2	10.0	18.0	25.7	33.7	42.2	50.8	54.2	100.0	67.3	74.6	81.0	100.0
Volume Average B.P. (°C)	332		41.1	83	125	175	225	275	325	360	535	409	475	524	656
Density @ 15°C (g/cc)	0.8572		0.6432	0.7074	0.7465	0.7830	0.8150	0.8531	0.8763	0.9001	0.9604	0.9247	0.9439	0.9549	0.9957
API Gravity	33.5		88.5	68.5	58.0	49.2	42.1	34.3	29.9	25.6	15.8	21.5	18.3	16.6	10.5
UOPK	12.00				11.98	11.88	11.83	11.66	11.69	11.60	11.79	11.58	11.69	11.81	11.92
Molecular Weight (g/mol)					110	138	171	207	251	282	528	333	429	542	1024
Total Sulfur (% wt)	1.4		0.002	0.008	0.024	0.067	0.196	0.69	1.21	1.48	2.65	1.76	2.02	2.36	3.61
Mercaptan Sulfur (ppm)	32.0			34.1	61.7	42.7	41.8	31.7							
Total Nitrogen (ppm)	1058						3	15	94	230	2272	545	1070	1493	4191
Basic Nitrogen (ppm)	269						2	11	39	76	571	166	312	414	1003
Total Acid Number (mgKOH/g)	0.50		0.00	0.00	0.00	0.02	0.22	0.71	0.91	0.93	0.68	1.00	0.99	0.79	0.30
Viscosity @ 20°C (cSt)	9.05						1.35								
Viscosity @ 40°C (cSt)	5.73						1.03	1.63	2.98	6.51	12.9				
Viscosity @ 50°C (cSt)	4.73							1.42	2.47	5.06	9.44	1068	26.8	131	488
Viscosity @ 60°C (cSt)												502	18.4	76.4	248
Viscosity @ 100°C (cSt)												57.3	6.05	16.1	35.6
Viscosity @ 130°C (cSt)															3122
Viscosity @ 150°C (cSt)															425
RON (Clear)			76.0	32.6	52.3	30.2									
MON (Clear)			73.3	48.0	53.1	31.7									
Paraffins (% wt)	29.2		97.8	76.7	48.9	47.7									
Naphthenes (% wt)	30.2		2.2	22.0	37.6	40.5									
Aromatics (% wt)	40.7		0.0	1.3	13.5	11.9									
Pour Point (°C)	-34						-46	-28	-7	3	23	17	37	49	57
Cloud Point (°C)							-44	-26	-6						
Freeze Point (°C)							-53	-40	-22						
Smoke Point (mm)							25	21	16						
Cetane Index (D4737A)							42	47	48	53	53				
Naphthalenes (% vol)							0.1	1.8	7.1	10.5					
Aniline Point (°C)					53.4	57.0	62.5	66.5	69.6	71.8		76.5	83.3	87.2	
Hydrogen (% wt)	13.2		16.6	15.7	14.4	14.3	13.7	13.3	12.9	12.6		12.2	12.1	12.1	
Total Wax (% wt)	5.5										3.1	6.6	5.4	2.2	0.1
C7 Asphaltenes (% wt)	0.4										0.9		0.0	0.0	2.1
Micro Carbon Residue (% wt)	3.1										6.8		0.3	1.9	15.6
Vanadium (ppm)	15.3										33.4		0.0	0.0	80.6
Nickel (ppm)	7.4										16.1		0.0	0.0	38.9
Iron (ppm)	1.8										3.8		0.0	0.0	9.2
Sodium (ppm)	2.4														
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				3.7	4.6	5.4	6.5	7.9	9.5	11.2
100	13.0	14.9	16.8	18.6	20.4	22.2	23.9	25.6	27.3	28.9
200	30.6	32.3	34.0	35.6	37.3	39.0	40.7	42.4	44.1	45.8
300	47.5	49.2	50.9	52.6	54.3	55.9	57.6	59.2	60.8	62.4
400	63.9	65.4	67.0	68.4	69.9	71.3	72.7	74.1	75.4	76.7
500	77.9	79.2	80.4	81.5	82.6	83.7	84.7	85.7	86.6	87.5