

Reference: HEBRN25B
Crude: Hebron



Crude Summary Report

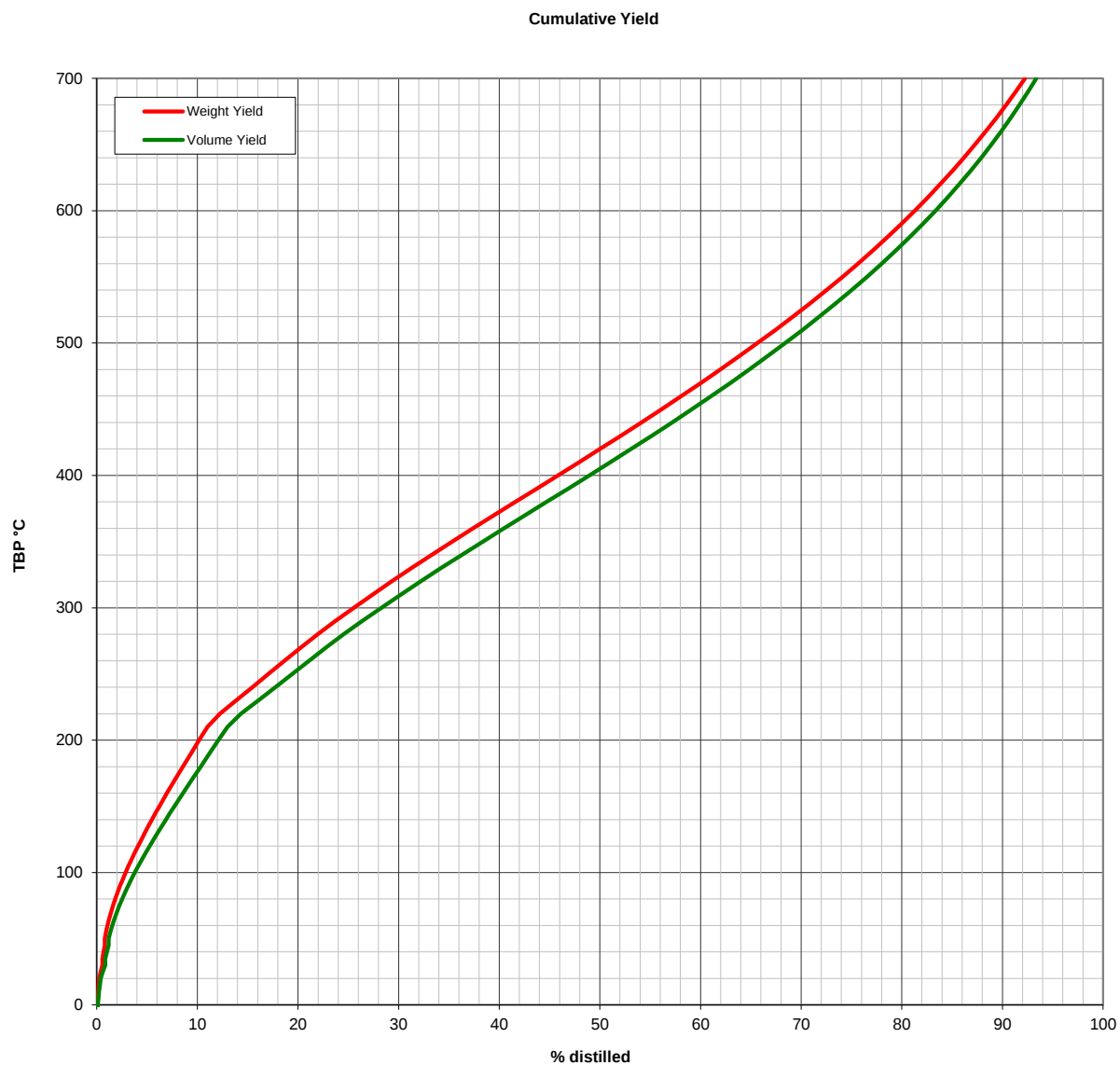
General Information		Molecules (%wt on crude)		Whole Crude Properties	
Reference:	HEBRN25B	methane + ethane	0.00	Density @ 15°C (g/cc)	0.9081
Name:	Hebron	propane	0.00	API Gravity	24.2
		isobutane	0.02	Total Sulfur (% wt)	0.80
Origin:	Newfoundland	n-butane	0.04	Pour Point (°C)	-3
		isopentane	0.07	Viscosity @ 20°C (cSt)	85.7
Assay Date:	6/27/2025	n-pentane	0.04	Viscosity @ 40°C (cSt)	33.3
		cyclopentane	0.01	Nickel (ppm)	4.8
Comments:		C6 paraffins	0.09	Vanadium (ppm)	3.4
		C6 naphthenes	0.11	Total Nitrogen (ppm)	2135
		benzene	0.01	Total Acid Number (mgKOH/g)	0.90
		C7 paraffins	0.18	Mercaptan Sulfur (ppm)	13.1
		C7 naphthenes	0.50	Hydrogen Sulfide (ppm)	0.0
		toluene	0.02	Reid Vapor Pressure (kPa)	10.3

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)		1.0	1.6	3.3	4.0	6.9	8.5	9.8	4.2	60.5		16.6	9.5	8.5	25.9
Yield (% vol)		1.4	2.0	3.9	4.4	7.3	8.8	10.1	4.2	57.4		16.6	9.3	8.1	23.5
Cumulative Yield (% wt)		0.2	1.2	2.9	6.2	10.2	17.1	25.5	35.3	39.5		39.5	56.1	65.7	74.1
Volume Average B.P. (°C)	412	41.2	84	126	175	228	276	325	360	536		409	475	524	655
Density @ 15°C (g/cc)	0.9081	0.6503	0.7324	0.7751	0.8186	0.8526	0.8718	0.8795	0.8978	0.9569		0.9121	0.9338	0.9456	1.0016
API Gravity	24.2	86.1	61.6	51.0	41.3	34.4	30.7	29.3	26.0	16.3		23.6	19.9	18.1	9.7
UOPK	11.80			11.55	11.37	11.32	11.42	11.65	11.63	11.84		11.74	11.82	11.92	11.84
Molecular Weight (g/mol)				109	135	167	203	250	283	543		339	436	550	1027
Total Sulfur (% wt)	0.8	0.001	0.002	0.004	0.011	0.041	0.143	0.364	0.52	1.20		0.66	0.81	1.03	1.75
Mercaptan Sulfur (ppm)	13.1														
Total Nitrogen (ppm)	2135					1	7	69	202	3503		536	1171	2307	6659
Basic Nitrogen (ppm)	640					1	6	36	88	1046		224	484	734	1883
Total Acid Number (mgKOH/g)	0.90	0.01	0.05	0.20	0.39	0.35	0.42	0.71	0.98	1.17		1.30	1.54	1.56	0.82
Viscosity @ 20°C (cSt)	85.7				1.44										
Viscosity @ 40°C (cSt)	33.3				1.08	1.77	3.23	7.27	14.7						
Viscosity @ 50°C (cSt)	22.7					1.52	2.64	5.51	10.4	1384		30.6	139	410	
Viscosity @ 60°C (cSt)										632		20.3	79.4	212	
Viscosity @ 100°C (cSt)										66.8		6.18	15.9	31.8	5246
Viscosity @ 130°C (cSt)															684
Viscosity @ 150°C (cSt)															246
RON (Clear)		81.7	72.7	62.2	67.8										
MON (Clear)		80.1	74.9	63.4	53.4										
Paraffins (% wt)	14.4	94.8	39.1	20.9	16.3										
Naphthenes (%wt)	35.3	5.2	59.8	74.7	69.5										
Aromatics (% wt)	50.3	0.0	1.0	4.3	14.3										
Pour Point (°C)	-3					-73	-36	-8	6	27		25	43	51	62
Cloud Point (°C)						-71	-34	-6							
Freeze Point (°C)					-103	-66	-29								
Smoke Point (mm)					21	16	12								
Cetane Index (D4737A)					26	33	40		54						
Naphthalenes (% vol)					0.9	8.8	11.7	12.9							
Aniline Point (°C)				44.1	43.1	47.5	57.7	68.8	73.7			80.1	86.5	87.6	
Hydrogen (% wt)	12.6	16.5	15.0	14.5	13.8	12.9	12.9	12.8	12.6			12.4	12.4	12.4	
Total Wax (% wt)	3.8									3.6		8.8	3.5	1.4	1.0
C7 Asphaltenes (% wt)	1.3										2.2		0.0	0.0	5.2
Micro Carbon Residue (% wt)	4.5										7.4		0.1	1.2	16.8
Vanadium (ppm)	3.4										5.6		0.0	0.0	13.1
Nickel (ppm)	4.8										7.9		0.0	0.0	18.6
Iron (ppm)	1.6										2.6		0.0	0.0	6.2
Sodium (ppm)	1.1														
Mercury (ppb)	1.0														
Arsenic (ppb)	30														

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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				0.9	1.0	1.2	1.5	2.0	2.5	3.1
100	3.8	4.5	5.3	6.1	6.9	7.7	8.6	9.4	10.3	11.2
200	12.1	13.0	14.3	16.0	17.8	19.4	21.1	22.8	24.5	26.4
300	28.3	30.2	32.2	34.2	36.3	38.4	40.5	42.6	44.7	46.8
400	49.0	51.0	53.1	55.2	57.2	59.2	61.1	63.0	64.8	66.7
500	68.4	70.1	71.8	73.4	75.0	76.5	78.0	79.4	80.8	82.1