

Reference: HBER225Y
Crude: Hibernia



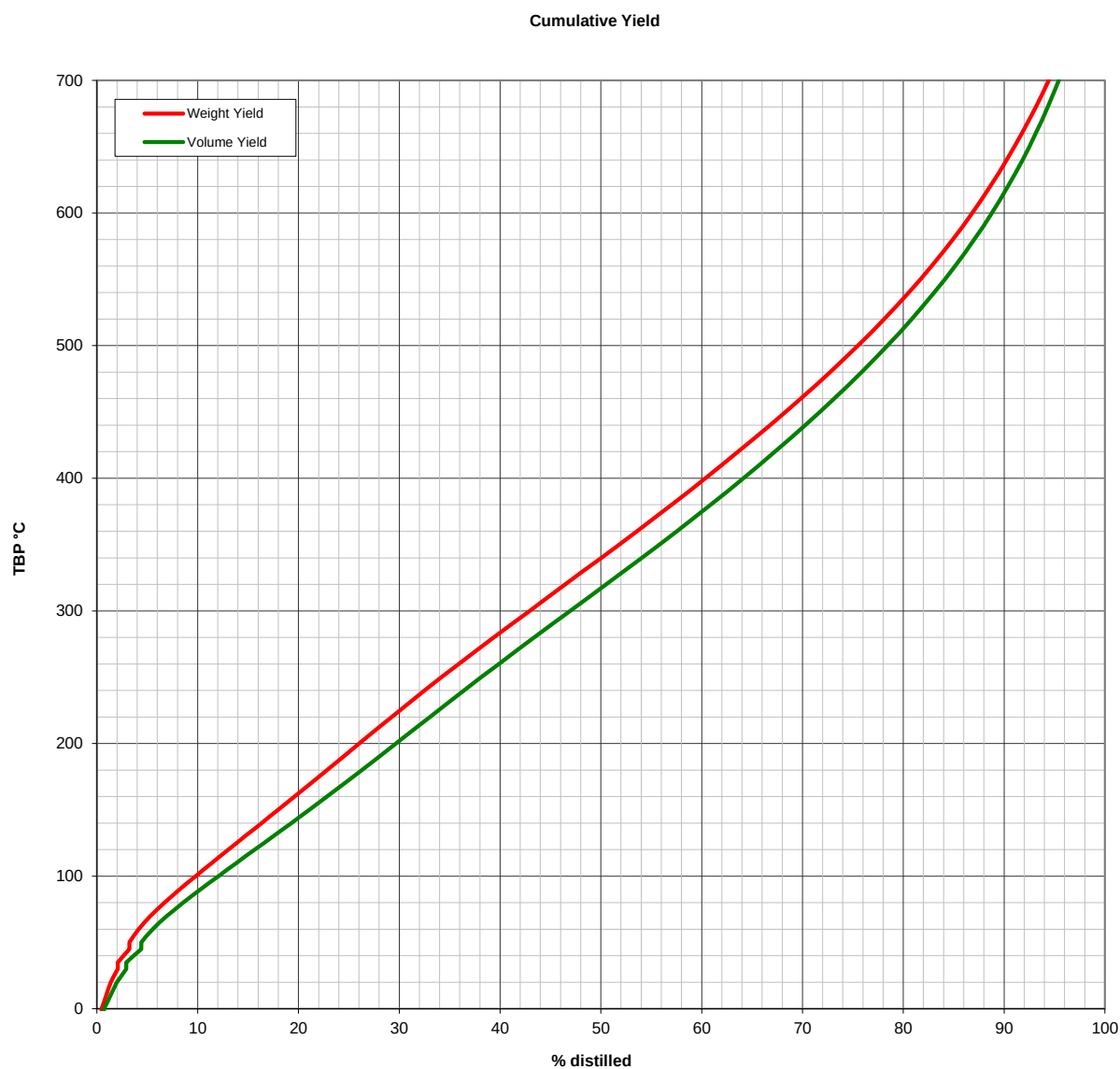
Crude Summary Report

General Information				Molecules (%wt on crude)							Whole Crude Properties				
Reference:	HBER225Y			methane + ethane			0.03		Density @ 15°C (g/cc)			0.8551			
Name:	Hibernia			propane			0.38		API Gravity			33.9			
Origin:	Newfoundland			isobutane			0.26		Total Sulfur (% wt)			0.63			
				n-butane			1.03		Pour Point (°C)			6			
				isopentane			0.86		Viscosity @ 20°C (cSt)			14.2			
Assay Date:	4/18/2025			n-pentane			1.39		Viscosity @ 40°C (cSt)			6.5			
Comments:			cyclopentane			0.24		Nickel (ppm)			2.0				
			C6 paraffins			2.58		Vanadium (ppm)			1.4				
			C6 naphthenes			1.46		Total Nitrogen (ppm)			1292				
			benzene			0.40		Total Acid Number (mgKOH/g)			0.09				
			C7 paraffins			2.31		Mercaptan Sulfur (ppm)			0.0				
			C7 naphthenes			1.94		Hydrogen Sulfide (ppm)			0.0				
			toluene			0.92		Reid Vapor Pressure (kPa)			42.8				
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)		3.6	5.1	8.2	8.0	8.2	8.7	8.9	3.5	44.7	13.0	7.2	6.2	18.3	
Yield (% vol)		4.5	5.8	9.0	8.6	8.5	8.8	8.9	3.4	40.8	12.5	6.7	5.7	15.9	
Cumulative Yield (% wt)		1.1	4.7	9.8	18.0	26.0	34.2	42.9	51.8	55.3	55.3	68.3	75.5	81.7	
Volume Average B.P. (°C)	334	42.5	83	125	175	225	275	325	360	532	409	474	524	655	
Density @ 15°C (g/cc)	0.8551	0.6686	0.7441	0.7760	0.7975	0.8241	0.8465	0.8571	0.8754	0.9360	0.8884	0.9145	0.9302	0.9846	
API Gravity	33.9	80.1	58.6	50.8	45.9	40.1	35.6	33.5	30.1	19.6	27.7	23.1	20.5	12.1	
UOPK	12.04			11.53	11.67	11.70	11.76	11.95	11.93	12.08	12.05	12.07	12.12	12.05	
Molecular Weight (g/mol)				109	137	170	209	257	292	549	350	448	564	1058	
Total Sulfur (% wt)	0.6	0.000	0.001	0.002	0.009	0.045	0.172	0.423	0.58	1.23	0.68	0.94	1.19	1.76	
Mercaptan Sulfur (ppm)	5.0	0.3	1.0	2.2	3.7	3.7	2.5								
Total Nitrogen (ppm)	1292					1	6	86	246	2854	533	1300	2286	5305	
Basic Nitrogen (ppm)	421					1	5	34	85	928	197	402	636	1753	
Total Acid Number (mgKOH/g)	0.09	0.01	0.03	0.06	0.09	0.11	0.12	0.12	0.12	0.10	0.11	0.09	0.08	0.11	
Viscosity @ 20°C (cSt)	14.2					1.31									
Viscosity @ 40°C (cSt)	6.45					1.01	1.57	2.78	5.70	10.4					
Viscosity @ 50°C (cSt)	4.73						1.36	2.32	4.48	7.75	371				
Viscosity @ 60°C (cSt)										200	18.7	73.4	239		
Viscosity @ 100°C (cSt)										32.9	13.3	45.9	134		
Viscosity @ 130°C (cSt)											4.84	11.7	24.8	900	
Viscosity @ 150°C (cSt)														184	
														82.7	
RON (Clear)		74.6	35.5	61.4	31.8										
MON (Clear)		73.4	54.8	59.7	31.0										
Paraffins (% wt)	32.8	93.4	61.0	39.3	48.0										
Naphthenes (%wt)	32.9	6.6	32.5	39.4	35.1										
Aromatics (% wt)	34.3	0.0	6.5	21.3	17.0										
Pour Point (°C)	6					-46	-22	1	13	46	30	46	55	54	
Cloud Point (°C)						-44	-20	3							
Freeze Point (°C)						-65	-40	-16							
Smoke Point (mm)						27	21	16							
Cetane Index (D4737A)						35	43	51	62	64					
Naphthalenes (% vol)						0.1	3.9	8.3	10.0						
Aniline Point (°C)		48.0				52.4	60.9	69.1	75.7	79.8	86.7	92.5	93.0		
Hydrogen (% wt)	13.5	16.5	15.1	13.8	14.2	13.2	13.6	13.5	13.2		13.1	12.9	12.6		
Total Wax (% wt)	12.0									10.2	20.0	11.5	7.3	3.7	
C7 Asphaltenes (% wt)	0.2									0.4		0.0	0.0	1.0	
Micro Carbon Residue (% wt)	2.7									6.1		0.1	1.0	14.5	
Vanadium (ppm)	1.4									3.2		0.0	0.0	7.8	
Nickel (ppm)	2.0									4.5		0.0	0.0	11.1	
Iron (ppm)	0.5									1.1		0.0	0.0	2.7	
Sodium (ppm)	4.5														
Mercury (ppb)	0.4														
Arsenic (ppb)	7														

This assay information is provided to you courtesy of ExxonMobil Technology & Engineering Company (EMTEC) and is based on a range of data and information. While care has been taken in preparing these materials, no representations, warranties or guarantees are made as to their accuracy, reliability, quality, correctness or completeness. Each user must make its own determination and judgment on applying any information in this assay. Any and all use of this information shall be the sole responsibility of the user, and the user releases EMTEC, its parent and its affiliates from any and all claims arising from its use and shall defend and hold EMTEC, its parent and its affiliates harmless from any third party claims arising from the user's application or use of the assay information.

Reference: **HBER225Y**
Crude: **Hibernia**

Yield Distribution



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

	0	10	20	30	40	50	60	70	80	90
0				2.9	3.7	4.4	5.5	7.0	8.6	10.3
100	12.1	13.9	15.7	17.5	19.3	21.1	22.8	24.6	26.3	28.0
200	29.7	31.4	33.0	34.7	36.4	38.1	39.9	41.6	43.4	45.2
300	47.0	48.7	50.5	52.3	54.1	55.8	57.5	59.2	60.9	62.5
400	64.1	65.7	67.3	68.8	70.3	71.7	73.1	74.5	75.9	77.2
500	78.4	79.7	80.8	82.0	83.1	84.1	85.1	86.1	87.0	87.9