Reference: HBER225Y
Crude: Hibernia

ExxonMobil

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**
		isobutane	0.26	Total Sulfur (% wt)	0.63
Origin:	Newfoundland	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
		cyclopentane	0.24	Nickel (ppm)	2.0
Comments:		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	18.7	73.4	239	
Viscosity @ 60°C (cSt)										200	13.3	45.9	134	
Viscosity @ 100°C (cSt)										32.9	4.84	11.7	24.8	900
Viscosity @ 130°C (cSt)														184
Viscosity @ 150°C (cSt)														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													

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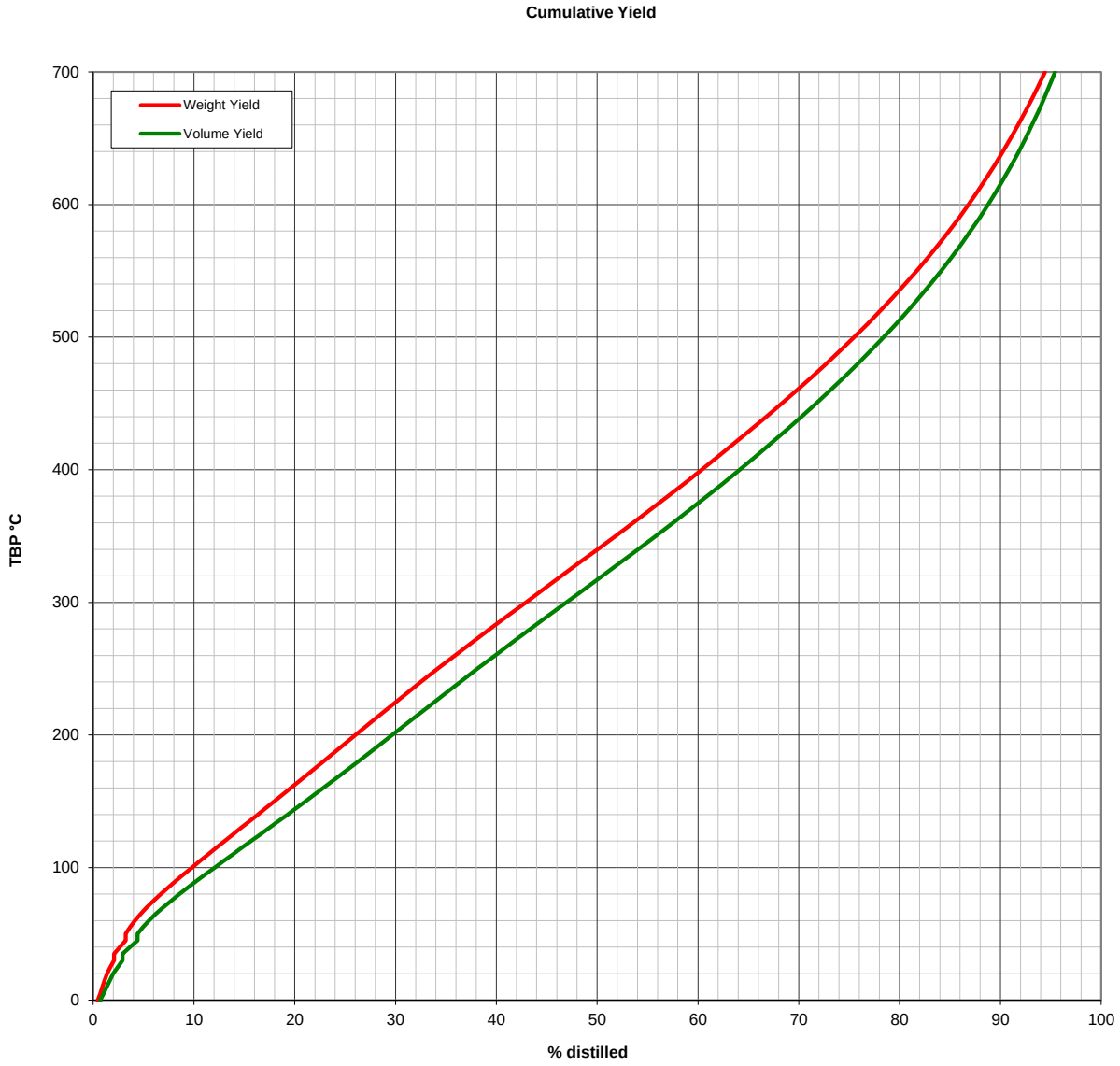
Yield Distribution



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

	0	10	20	30	40	50	60	70	80	90
0				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