

Reference: HIBER23Y
Crude: Hibernia



Crude Summary Report

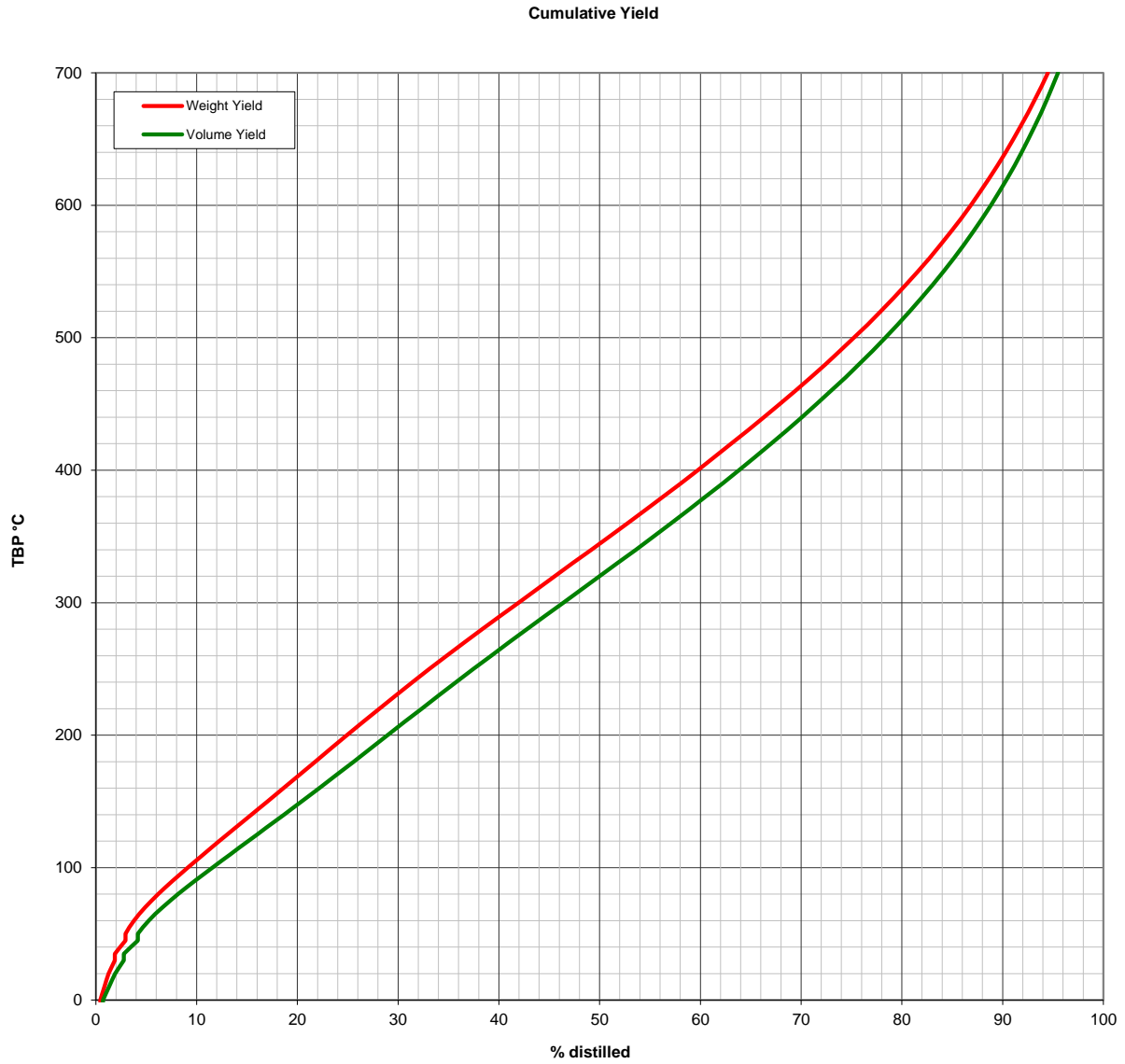
General Information		Molecules (%wt on crude)				Whole Crude Properties			
Reference:	HIBER23Y	methane + ethane	0.00	Density @ 15°C (g/cc)	0.8546				
Name:	Hibernia	propane	0.23	API Gravity	34.0				
Origin:	Newfoundland	isobutane	0.22	Total Sulfur (% wt)	0.58				
Assay Date:	7/21/2023	n-butane	0.87	Pour Point (°C)	-1				
Comments:		isopentane	0.67	Viscosity @ 20°C (cSt)	16.7				
		n-pentane	1.11	Viscosity @ 40°C (cSt)	7.0				
		cyclopentane	0.15	Nickel (ppm)	1.9				
		C6 paraffins	2.11	Vanadium (ppm)	1.3				
		C6 naphthenes	1.16	Total Nitrogen (ppm)	1304				
		benzene	0.34	Total Acid Number (mgKOH/g)	0.06				
		C7 paraffins	2.00	Mercaptan Sulfur (ppm)	9.1				
		C7 naphthenes	1.64	Hydrogen Sulfide (ppm)	0.0				
		toluene	0.81	Reid Vapor Pressure (kPa)	40.4				

Cut Data	IBP	Atmospheric Cuts										Vacuum Cuts			
		C5	65	100	150	200	250	300	350	370	370	450	500	550	
Start (°C)	FBP	65	100	150	200	250	300	350	370	FBP	450	500	550	FBP	
End (°C)															
Yield (% wt)		3.3	4.8	7.9	7.9	8.2	8.8	9.0	3.6	45.4	13.3	7.4	6.3	18.4	
Yield (% vol)		4.3	5.7	8.9	8.5	8.5	8.9	9.0	3.5	41.2	12.7	6.8	5.8	15.9	
Cumulative Yield (% wt)		1.1	4.3	9.1	17.0	24.9	33.1	41.9	51.0	54.6	54.6	67.9	75.3	81.6	
Volume Average B.P. (°C)	336	42.6	83	125	175	225	275	325	360	531	409	474	524	655	
Density @ 15°C (g/cc)	0.8546	0.6463	0.7244	0.7606	0.7879	0.8197	0.8459	0.8591	0.8788	0.9410	0.8935	0.9212	0.9372	0.9889	
API Gravity	34.0	87.4	63.8	54.5	48.0	41.1	35.7	33.1	29.4	18.8	26.8	22.0	19.4	11.5	
UOPK	12.06			11.76	11.81	11.76	11.76	11.92	11.88	12.01	11.98	11.98	12.03	11.99	
Molecular Weight (g/mol)				110	138	171	209	256	290	541	348	444	557	1044	
Total Sulfur (% wt)	0.6	0.000	0.001	0.002	0.009	0.045	0.168	0.406	0.55	1.11	0.63	0.86	1.09	1.56	
Mercaptan Sulfur (ppm)	9.1	0.4	1.3	3.0	4.8	4.7	3.1								
Total Nitrogen (ppm)	1304					1	6	85	245	2832	533	1303	2286	5296	
Basic Nitrogen (ppm)	376					1	5	35	86	811	196	388	597	1500	
Total Acid Number (mgKOH/g)	0.06	0.01	0.02	0.05	0.07	0.07	0.07	0.07	0.07	0.06	0.06	0.05	0.05	0.07	
Viscosity @ 20°C (cSt)	16.7				1.31										
Viscosity @ 40°C (cSt)	7.05				1.01	1.57	2.78	5.70	10.4						
Viscosity @ 50°C (cSt)	5.04					1.36	2.32	4.48	7.75	358	18.7	73.4	239		
Viscosity @ 60°C (cSt)										193	13.3	45.9	134		
Viscosity @ 100°C (cSt)										32.2	4.84	11.7	24.8	873	
Viscosity @ 130°C (cSt)														180	
Viscosity @ 150°C (cSt)														81.0	
RON (Clear)		74.7	37.0	61.9	33.0										
MON (Clear)		73.0	55.5	58.8	30.9										
Paraffins (% wt)	31.2	94.9	61.1	37.9	49.7										
Naphthenes (%wt)	32.3	5.1	32.3	39.2	32.8										
Aromatics (% wt)	36.5	0.0	6.6	22.9	17.5										
Pour Point (°C)	-1					-47	-22	1	13	13	30	46	55	17	
Cloud Point (°C)							-45	-20	3						
Freeze Point (°C)						-65	-40	-16							
Smoke Point (mm)						27	21	16							
Cetane Index (D4737A)						39	45	51	61	63					
Naphthalenes (% vol)						0.1	3.9	8.3	9.9						
Aniline Point (°C)				47.9	52.4	60.8	69.1	75.8	79.8		86.4	92.0	92.6		
Hydrogen (% wt)	13.4	16.5	15.1	13.7	14.2	13.4	13.6	13.4	13.1		12.9	12.7	12.4		
Total Wax (% wt)	11.8									9.6	18.6	10.7	6.9	3.6	
C7 Asphaltenes (% wt)	0.2									0.5	0.0	0.0	0.0	1.1	
Micro Carbon Residue (% wt)	2.6									5.7	0.1	1.0	13.8		
Vanadium (ppm)	1.3									3.0	0.0	0.0	7.3		
Nickel (ppm)	1.9									4.3	0.0	0.0	10.6		
Iron (ppm)	0.8									1.8	0.0	0.0	4.5		
Sodium (ppm)	5.6														
Mercury (ppb)	1.0														
Arsenic (ppb)	5														

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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				2.8	3.5	4.2	5.3	6.6	8.1	9.8
100	11.6	13.3	15.1	16.9	18.7	20.4	22.2	23.9	25.6	27.3
200	29.0	30.6	32.3	34.0	35.7	37.5	39.2	41.0	42.8	44.6
300	46.4	48.2	50.0	51.8	53.6	55.4	57.1	58.8	60.5	62.2
400	63.8	65.4	67.0	68.6	70.1	71.5	73.0	74.4	75.8	77.1
500	78.4	79.6	80.8	82.0	83.1	84.1	85.2	86.1	87.1	88.0