



**FORT HILLS REDUCED
CARBON LIFE CYCLE
DILBIT**

Crude
Country: Canada

TBP
DISTILLATION

Density at 15°C, kg/m3	926.2	Assay Date	31-Mar-17		°C	wt%	vol%	°C	wt%	vol%
°API	21.2		080	13.7	19.5	480	44.1	50.2		
Bbl/mt	6.801	090	15.0	21.1	500	48.3	54.2			
Acidity, mg KOH/g	2.24	100	15.9	22.3	520	53.2	58.7			
Sulphur, wt%	3.930	120	16.6	23.2	540	58.3	63.4			
Hydrogen Sulphide, mg/kg	0	140	16.8	23.4	560	63.2	68.0			
Mercaptan Sulphur, mg/kg	52	160	16.9	23.6	580	67.8	72.2			
Viscosity, cSt at 10 °C	410	180	17.1	23.8	200	17.4	24.0			
50 °C	44	220	17.6	24.3	240	18.0	24.7			
Pour Point, °C	-36	260	18.5	25.3	280	19.7	26.5			
Total Nitrogen, wt%	0.363	300	21.8	28.6	320	24.0	30.8			
Wax, wt%	-	340	26.6	33.4	360	29.8	36.6			
Wax Appearance Temperature, °C	-	380	32.9	39.6	400	35.2	41.8			
RVP at 37.8 °C, kPa	54	420	36.9	43.4	440	38.6	45.0			
Water, vol%	0.02	460	40.9	47.1						
NaCl, mg/kg	38.4									
Nickel, mg/kg	51.3									
Vanadium, mg/kg	126.0									
Iron, mg/kg	17.8									
Mercury, µg/kg	< 1									
Arsenic, mg/kg	< 1									
Calcium, mg/kg	18.0									

PROPERTIES OF TBP CUTS

Cuts	Yield	Yield	Den 15°C	S	RSH	RON	MON				Napht.	Aro.	RVP			
LIGHT NAPHTHA	15-65	11.2	16.2	641	0.00	40	74.0	73.4			3.2	0.2	-			
	15-80	13.2	18.8	651	0.00	58	71.3	70.8			6.2	0.7	-			
HEAVY NAPHTHA	80-150	3.2	3.9	738	0.01	102					27.9	8.3				
	80-175	3.4	4.2	741	0.02	101					27.2	8.6				
	100-150	0.9	1.2	755	0.03	87					25.3	10.7				
KEROSENE	150-230	0.9	1.1	822	0.34	104	35	0.12	33.4	-69		18.9	1.0			59.2
	175-230	0.7	0.8	830	0.41	107	35	0.15	33.3	-68		20.8	1.1			70.5
	150-250	1.3	1.5	833	0.48	106	34	0.16	34.2	-68		20.1	1.2			63.9
GASOIL	175-400	18.1	18.1	925	2.43		47		33.1	-56	-58	-61	8.0	2.3	11.1	115.8
	230-400	17.4	17.3	929	2.52		47		33.1	-60	-60	-60	9.0	2.5	11.1	120.0
	230-375	14.4	14.4	923	2.35		48		33.3	-66	-66	-66	7.1	2.1	11.1	117.8
VACUUM DISTILLATE	375-550	28.6	26.8	982	3.86	0.5	54	1	3	0.25	691	6	22.9	5.3	11.3	0.0
	375-565	32.2	30.2	985	3.95	0.7	55	2	5	0.27	748	8	27.1	6.0	11.3	0.1
	375-580	35.6	33.3	987	4.03	1.0	55	3	8	0.29	802	10	32.0	6.7	11.3	0.1
	400-580	32.7	30.5	989	4.09	1.0	56	4	9	0.31	840	13	39.2	7.7	11.3	0.1
RESIDUE	> 375	67.8	61.1	1024	5.30	13.2	4.6	76	185	0.53		24	359	34	-	4.5
	> 550	39.2	34.3	1057	6.35	22.6	5.5	130	318	0.74		75	10,400	319	25	7.7
	> 565	35.6	30.9	1063	6.52	24.6	5.5	142	348	0.76		80	19,100	476	18	8.5
	> 580	32.2	27.8	1069	6.70	26.9	5.6	156	381	0.79		85	36,500	730	14	9.3

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TOTAL DTS / AM

Sep-17