

Canadian Crude Quick Spill Response Guide



Crude Quality Inc.
 #200, 17850 105 Avenue
 Edmonton, Alberta T5S 2H5
 Phone/Fax: (780) 757-9909
 www.crudequality.com

	Grade	Name	Acronym	Seasonality	Sample Site	API Oil Classification	API (deg)	Sulfur (wt%)	Benzene (vol%)	Viscosity at 15°C/60°F (cSt) ¹	Vapor Pressure (psi) ²
Conventional	Medium Sour	Midale	MSM		Cromer	Medium	29.9	2.29	0.77	14.3	10.3
	Heavy Sour	Bow River North	BRN		Hardisty	Heavy	21.4	2.82	0.12	145	7.85
		Bow River South	BRS		Milk River	Heavy	22.9	2.74	0.09	-	-
		Fosterton	F	Y	Regina	Heavy	20.9	3.24	0.02	148	6.67 ^{RVP}
		Lloyd Blend	LLB	Y	Hardisty	Heavy	20.9	3.51	0.17	220	6.38
		Seal Heavy	SH	Y	Edmonton	Heavy	20.7	4.75	0.21	135	7.41
		Smiley-Coleville	SC	Y	Kerrobert	Heavy	20.3	3.03	0.14	197	4.93 ^{RVP}
Wabasca Heavy	WH	Y	Edmonton	Heavy	20.0	4.13	0.11	178	6.44		
Unconventional	Dilbit	Access Western Blend	AWB	Y	Edmonton	Heavy	21.8	3.92	0.27	209	8.88
		Christina Dilbit Blend	CDB	Y	Hardisty	Heavy	21.6	3.85	0.25	189	7.31
		Cold Lake	CL	Y	Hardisty	Heavy	21.0	3.78	0.23	208	8.88
		Western Canadian Select	WCS	Y	Hardisty	Heavy	20.9	3.50	0.16	219	8.40
	Dilsynbit	Albian Heavy Synthetic	AHS		Edmonton	Heavy	19.2	2.44	0.14	176	9.20
Synthetic	Light Synthetic	CNRL Light Sweet Synthetic	CNS		Edmonton	Light	35.1	0.07	0.05	3.82	4.55
		Husky Synthetic Blend	HSB		Hardisty	Light	31.7	0.10	0.03	12.0	4.24
		Long Lake Light Synthetic	PSC		Hardisty	Light	37.6	0.09	0.16	5.54	2.25
		Premium Albian Synthetic	PAS		Edmonton	Light	32.0	0.05	0.03	9.56	0.70
		Suncor Synthetic A	OSA		Edmonton	Light	32.6	0.17	0.05	7.45	4.51
		Syncrude Sweet Premium	SSP		Edmonton	Light	32.4	0.17	0.19	9.89	4.15
	Heavy Low Resid	Suncor Synthetic H	OSH		Hardisty	Heavy	19.4	3.08	0.03	98.5	1.99
Pooled Crudes - Ex Superior	Heavy Sour	Conventional Heavy	CHV	Y	Superior	Heavy	20.7	3.58	0.12	-	-
		Premium Conventional Heavy	PCH	Y	Superior	Heavy	21.3	3.13	0.10	-	-
	Synbit	Synbit Blend	SYB		Superior	Heavy	20.4	3.14	0.09	-	-
	Medium Sour	Medium Sour Blend	MSB		Superior	Light	32.7	1.83	0.43	8.4	-
	Light Sour	Light Sour Blend	LSB		Superior	Light	37.7	1.03	0.26	5.88	-
	Light Sweet	Mixed Sweet Blend	MSW		Superior	Light	39.5	0.41	0.24	5.02	11.78
	Light Synthetic	Hardisty Synthetic Crude	HSC		Superior	Light	32.9	0.12	0.09	8.54	-
		Premium Synthetic	PSY		Superior	Light	33.3	0.09	0.06	11.1	-
	Synthetic Sweet Blend	SYN		Superior	Light	33.0	0.17	0.12	8.2	-	

"ND" indicates a value below the minimum detection limit

"-" indicates no available data

Results based on averages from Jan. 1, 2011 to June 30, 2015 from crudemonitor.ca, calculated on August 17, 2015

1 Viscosity based on regression calculations of Enbridge 2014 Crude Oil Characteristics

2 VCPR 4:1 @ 100°F based on Enbridge 2014 Crude Oil Characteristics, converted from kPa to psi

Visit <http://www.crudemonitor.ca> for up-to-date information

[See the Enbridge 2014 Crude Oil Characteristics report for more info on how viscosity and vapor pressure are obtained](#)

Canadian Crude Quick Spill Response Guide



Crude Quality Inc.
 #200, 17850 105 Avenue
 Edmonton, Alberta T5S 2H5
 Phone/Fax: (780) 757-9909
 www.crudequality.com

	Grade	Name	Acronym	HTSD Mass % Recovered (°F)								Light Ends (vol%)				
				5	10	20	40	60	80	95	99	C3-	C4	C5	C6	C7
Conventional	Medium Sour	Midale	MSM	170	218	322	539	756	1020	-	-	0.33	1.31	2.35	5.29	5.58
	Heavy Sour	Bow River North	BRN	119	223	467	757	965	1240	-	-	0.12	1.96	4.97	4.35	3.22
		Bow River South	BRS	190	284	451	683	907	1202	-	-	0.15	0.63	3.00	3.13	2.98
		Fosterton	F	227	330	484	722	947	1256	-	-	0.08	1.30	1.10	2.02	2.37
		Lloyd Blend	LLB	115	229	480	744	988	1276	-	-	0.06	2.05	5.18	4.15	2.85
		Seal Heavy	SH	142	227	420	739	1028	1292	-	-	0.11	1.40	4.70	4.65	4.20
		Smiley-Coleville	SC	141	269	495	747	984	1264	-	-	0.04	0.66	5.50	3.86	2.46
Wabasca Heavy	WH	176	278	470	731	992	1283	-	-	0.10	1.92	2.33	3.00	3.20		
Unconventional	Dilbit	Access Western Blend	AWB	109	170	415	774	1047	1303	-	-	0.05	0.68	9.21	6.67	4.11
		Christina Dilbit Blend	CDB	101	159	401	750	1008	1297	-	-	0.04	0.76	9.15	6.40	3.81
		Cold Lake	CL	116	195	465	758	1016	1290	-	-	0.05	1.01	6.89	5.53	3.38
		Western Canadian Select	WCS	121	236	487	750	993	1286	-	-	0.06	2.02	5.30	4.18	2.84
	Dilsynbit	Albian Heavy Synthetic	AHS	117	213	489	827	992	1204	-	-	0.12	1.59	5.93	5.59	3.82
Synthetic	Light Synthetic	CNRL Light Sweet Synthetic	CNS	213	277	367	485	578	680	818	963	0.01	1.14	2.59	3.66	3.70
		Husky Synthetic Blend	HSB	268	365	478	596	687	790	910	1013	0.19	1.77	1.60	1.95	2.03
		Long Lake Light Synthetic	PSC	201	255	345	474	587	721	892	1030	0.03	1.54	2.57	4.16	5.04
		Premium Albian Synthetic	PAS	299	354	424	523	607	706	854	994	0.01	0.18	0.41	1.02	1.59
		Suncor Synthetic A	OSA	220	301	408	548	646	745	869	989	0.01	1.58	2.93	3.65	3.15
		Syncrude Sweet Premium	SSP	211	290	401	545	663	790	929	1052	0.08	2.13	2.41	3.74	3.56
	Heavy Low Resid	Suncor Synthetic H	OSH	283	500	618	708	781	863	1128	1182	0.00	0.54	1.58	1.87	1.58
Pooled Crudes - Ex Superior	Heavy Sour	Conventional Heavy	CHV	131	260	488	750	1002	1282	-	-	0.08	1.83	5.17	3.79	2.75
		Premium Conventional Heavy	PCH	153	270	489	757	987	1285	-	-	0.11	1.61	4.76	3.95	2.91
	Synbit	Synbit Blend	SYB	212	347	503	702	923	1249	-	-	0.03	0.89	3.14	2.87	2.39
	Medium Sour	Medium Sour Blend	MSB	149	220	337	563	783	1077	-	-	0.38	3.27	3.36	5.35	5.67
	Light Sour	Light Sour Blend	LSB	134	201	281	465	661	911	1230	1290	0.68	2.83	3.73	6.07	6.87
	Light Sweet	Mixed Sweet Blend	MSW	115	186	265	464	667	911	1204	1288	0.51	4.12	3.28	5.61	7.05
	Light Synthetic	Hardisty Synthetic Crude	HSC	239	320	426	562	663	776	926	1092	0.13	1.68	1.99	2.64	2.94
		Premium Synthetic	PSY	249	319	406	520	614	719	881	1055	0.05	0.93	1.56	2.40	2.77
Synthetic Sweet Blend		SYN	219	297	406	545	656	778	930	1091	0.08	1.92	2.35	3.50	3.48	

"ND" indicates a value below the minimum detection limit
 "-" indicates no available data

Results based on averages from Jan. 1, 2011 to June 30, 2015 from crudemonitor.ca, calculated on August 17, 2015

Visit <http://www.crudemonitor.ca> for up-to-date information