

Light Crude Quality Testing Project -- Typical Crude Properties

Crude	Sulphur (wt%)	API Gravity	Nickel (mg/L)	Vanadium (mg/L)	MCR (mass%)	TotalC4's (vol%)	TotalC5's (vol%)	Distillation Profile (%off at oC)					
								10%	20%	25%	50%	75%	FBP
BC Light													
Average	0.57	40.5	1.63	4.99	0.98	1.75	2.42	104	145	167	282	413	689
Upper	0.64	42.1	2.96	9.11	1.37	2.44	2.87	129	164	184	303	440	725
Lower	0.50	39.0	0.31	0.86	0.60	1.06	1.98	79	126	149	260	387	653
Bonnie Glen													
Average	0.39	42.2	2.83	6.64	1.46	3.29	3.91	81	119	141	265	430	703
Upper	0.53	45.1	4.95	12.43	2.33	4.63	5.37	113	142	162	300	498	734
Lower	0.25	39.3	0.71	0.85	0.59	1.95	2.44	49	97	120	230	362	673
Boundary Lake													
Average	0.76	36.2	8.94	27.74	2.67	1.45	2.45	113	163	188	314	461	702
Upper	0.84	37.6	11.07	32.42	3.21	1.90	2.85	126	174	202	331	484	715
Lower	0.68	34.8	6.81	23.07	2.13	1.01	2.04	99	151	174	298	438	688
CNRL Light Sweet Synthetic													
Average	0.05	35.0			0.10	1.24	2.75	135	189	209	278	342	544
Upper	0.07	36.7			0.10	1.91	4.41	144	197	216	284	349	564
Lower	0.03	33.2			0.10	0.57	1.09	126	181	202	273	335	523
Federated													
Average	0.39	40.0	3.30	6.77	1.65	2.84	3.20	95	135	156	276	426	698
Upper	0.48	41.6	5.50	11.61	2.16	4.25	4.35	122	157	176	308	472	734
Lower	0.30	38.4	1.10	1.92	1.15	1.44	2.05	69	113	135	245	381	661
Gibson Light Sour													
Average	1.70	36.9	26.45	73.13	5.17	4.67	7.48	61	106	137	353	583	713
Upper	3.49	42.9	55.49	164.98	9.31	6.73	13.96	83	142	193	494	739	725
Lower		30.8	0.00	0.00	1.04	2.61	1.00	39	70	82	213	427	700
Gibson Light Sweet													
Average	0.43	40.8	3.86	7.51	1.74	3.97	4.72	80	122	146	290	440	703
Upper	0.53	45.6	5.63	12.18	2.41	6.17	8.56	100	150	185	334	471	720
Lower	0.32	36.0	2.10	2.84	1.07	1.77	0.87	60	95	108	246	409	686
Husky Synthetic Blend													
Average	0.10	32.6	0.37	0.93	0.06	2.93	1.57	177	236	255	329	403	589
Upper	0.14	33.9	0.93	1.81	0.17	3.63	2.16	195	250	269	342	416	653
Lower	0.07	31.3	0.00	0.04	0.00	2.23	0.97	160	222	242	316	390	526

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Joarcam													
Average	0.41	39.1	3.85	8.32	2.10	2.25	7.12	86	142	173	320	474	711
Upper	0.60	42.9	6.05	13.36	2.99	4.80	12.91	126	184	214	349	507	725
Lower	0.22	35.4	1.65	3.29	1.21	0.00	1.33	46	100	132	291	441	697
Kerrobert Sweet													
Average	0.28	36.6	4.22	5.47	2.38	2.97	2.90	101	155	183	319	468	708
Upper	0.40	38.8	5.84	9.99	2.75	3.68	4.97	117	179	211	345	501	723
Lower	0.16	34.4	2.60	0.96	2.02	2.25	0.83	85	130	156	293	434	693
Koch Alberta													
Average	1.06	34.9	10.46	18.83	3.56	1.90	3.50	103	154	178	318	476	713
Upper	1.24	38.8	14.67	28.04	4.28	4.10	6.42	137	191	217	357	529	733
Lower	0.88	30.9	6.26	9.63	2.84	0.00	0.59	69	117	140	279	424	693
Long Lake Light Synthetic													
Average	0.08	36.0	1.10	1.45	0.11	1.25	2.23	135	194	216	303	389	568
Upper	0.20	40.0	1.10	2.30	0.18	2.34	3.09	166	231	254	340	420	585
Lower		32.0	1.10	0.60	0.05	0.16	1.37	104	156	177	267	359	551
Mixed Sweet Blend													
Average	0.45	39.2	4.10	7.82	1.97	2.73	3.74	95	140	164	298	449	704
Upper	0.51	40.6	6.01	10.89	2.42	4.10	4.73	121	161	184	324	493	729
Lower	0.39	37.9	2.18	4.75	1.52	1.35	2.75	68	118	144	273	405	679
Peace													
Average	0.43	39.8	3.57	6.54	1.72	1.90	3.43	98	139	161	287	440	698
Upper	0.50	41.8	5.46	10.39	2.16	2.51	4.36	125	160	183	324	500	733
Lower	0.36	37.8	1.67	2.69	1.29	1.29	2.49	72	118	138	250	380	662
Peace River Sour													
Average	1.68	34.8	16.01	44.73	3.73	1.62	3.30	108	161	188	329	502	712
Upper	2.33	39.4	24.64	69.76	5.13	2.53	4.64	134	190	220	369	559	723
Lower	1.04	30.2	7.39	19.70	2.34	0.71	1.96	83	132	156	290	446	701
Pembina													
Average	0.41	38.9	3.38	7.03	1.92	2.13	3.40	97	139	162	298	457	705
Upper	0.49	41.0	5.04	10.44	2.44	3.90	4.30	121	161	185	331	499	732
Lower	0.34	36.8	1.72	3.62	1.39	0.36	2.50	72	118	139	266	414	677

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Pembina Light Sour													
Average	0.77	40.0	2.75	7.21	1.56	3.47	2.91	94	134	155	274	425	700
Upper	0.90	41.3	5.60	15.01	2.19	4.70	3.42	106	146	168	294	451	722
Lower	0.64	38.8	0.00	0.00	0.93	2.24	2.41	82	121	141	253	398	678
Premium Albian Synthetic													
Average	0.10	33.5	2.22	3.96	0.20	0.35	0.52	163	203	217	278	337	558
Upper	0.33	35.5	5.00	8.84	0.62	0.68	1.13	190	226	241	306	369	674
Lower		31.6	0.00	0.00	0.00	0.03	0.00	136	179	194	251	304	442
Rainbow													
Average	0.47	38.8	4.95	8.92	2.29	3.01	3.47	100	149	172	303	458	706
Upper	0.60	40.4	7.95	15.80	2.79	4.04	4.29	130	173	195	336	517	731
Lower	0.34	37.2	1.94	2.05	1.79	1.97	2.66	70	126	150	270	400	681
Redwater													
Average	0.45	35.1	10.23	5.15	3.34	1.74	2.93	106	166	195	338	500	712
Upper	0.52	37.9	18.97	10.12	3.96	2.49	5.08	134	192	226	379	595	735
Lower	0.38	32.2	1.48	0.17	2.72	1.00	0.78	77	141	165	298	406	690
Shell Synthetic Light													
Average	0.10	33.5		1.30	0.13	0.55	1.15	133	246	280	356	412	588
Upper	0.15	36.1		1.46	0.25	1.14	2.29	164	269	299	372	429	606
Lower	0.04	31.0		1.14	0.02	0.00	0.00	102	223	261	339	395	570
Suncor Synthetic A													
Average	0.19	33.1	0.57	1.49	0.02	1.79	2.99	133	196	224	315	381	572
Upper	0.25	35.5	2.52	4.14	0.13	2.63	3.99	157	221	248	330	396	633
Lower	0.14	30.8	0.00	0.00	0.00	0.95	2.00	109	172	200	299	367	510
Syncrude Synthetic													
Average	0.14	31.5	0.36	0.79	0.06	1.90	2.43	148	212	235	321	402	602
Upper	0.21	33.6	1.07	1.50	0.16	2.50	3.08	172	232	256	340	422	656
Lower	0.06	29.5	0.00	0.07	0.00	1.31	1.78	124	191	214	302	381	548
Tundra Sweet													
Average	0.41	40.0	5.01	1.93	1.77	3.05	2.49	97	138	159	268	402	691
Upper	0.54	41.1	7.19	3.49	2.21	4.12	2.93	107	149	169	281	421	720
Lower	0.29	38.9	2.84	0.37	1.33	1.98	2.06	87	126	150	255	382	662