



Crude **CASCADE CHINOOK BLEND**

Country United States of America

TBP DISTILLATION

Density at 15°C, kg/m3	906.0	Assay Date	13-Jan-13			°C	wt%	vol%	°C	wt%	vol%
°API	24.6	Assay Quality	Blend 40% Cascade 60% Chinook	080	3.56	5.06	460	49.51	54.48		
Bbl/mt	6.952			090	4.28	5.99	480	52.32	57.20		
Acidity, mg KOH/g	0.27			100	5.13	7.05	500	55.44	60.20		
Sulphur, wt%	2.810			120	6.78	9.10	520	58.99	63.59		
Hydrogen Sulphide, mg/kg	2			140	8.18	10.80	540	62.31	66.73		
Mercaptan Sulphur, mg/kg	3			160	9.81	12.76	560	65.23	69.48		
Viscosity, cSt at 10 °C	129.0			180	11.76	15.05	580	67.89	71.96		
50 °C	26.9			200	13.96	17.59					
Pour Point, °C	-24			220	16.33	20.26					
Total Nitrogen, wt%	0.182			240	18.85	23.06					
Wax, wt%	-	260	21.55	26.01							
Wax Appearance Temperature, °C	-	280	24.42	29.10							
RVP at 37.8 °C, kPa	31	300	27.36	32.22							
Water, vol%	-	320	30.24	35.24							
NaCl, mg/kg	-	340	33.02	38.11							
Nickel, mg/kg	26.6	360	35.72	40.87							
Vanadium, mg/kg	97.8	380	38.42	43.58							
Iron, mg/kg	10.8	400	41.14	46.29							
Mercury, µg/kg	9.3	420	43.90	49.01							
		440	46.70	51.75							

PROPERTIES OF TBP CUTS

LIGHT NAPHTHA	Cuts	Yield	Yield	Den 15°C	S	RSH	RON	MON			Napht.	Aro.	RVP			
	°C	wt%	vol %	kg/m3	wt%	mg/kg	clear	clear			vol%	vol%	kPa			
	15-65	2.03	2.85	645	0.0001	1	70.4	70.4			4.0	0.2	-			
	15-80	2.85	3.91	659	0.0002	1	65.4	66.2			8.0	0.6	-			
HEAVY NAPHTHA	Cuts	Yield	Yield	Den 15°C	S	RSH					Napht.	Aro.				
	°C	wt%	vol %	kg/m3	wt%	mg/kg					vol%	vol%				
	80-150	5.39	6.68	730	0.0110	1					24.3	6.9				
80-175	7.69	9.39	740	0.0333	1					23.3	9.3					
100-150	3.82	4.69	738	0.0148	1					24.5	8.3					
KEROSENE	Cuts	Yield	Yield	Den 15°C	S	RSH	Smoke	Acidity	Cetane	Freez. Pt		Aro.	Visc cSt			Flash
	°C	wt%	vol %	kg/m3	wt%	mg/kg	Pt mm	mgKOH/g	Index	°C		vol%	50°C			Point
	150-230	8.62	9.91	786	0.263	2	29	0.11	48.2	-59		14.1	1.3			-
	175-230	6.32	7.19	795	0.327	2	28	0.11	48.4	-53		13.8	1.4			-
150-250	11.23	12.78	794	0.387	2	28	0.11	48.9	-52		15.3	1.4			-	
GASOIL	Cuts	Yield	Yield	Den 15°C	S		Anilin		Cetane	Cloud Pt	CFPP	Pour Pt	Visc cSt	Visc cSt	UOPK	Flash
	°C	wt%	vol %	kg/m3	wt%		Point °C		Index	C	C	C	50°C	100°C		Point
	175-400	29.89	31.83	849	1.680		68		50.3	-4	-8	-12	3.1	1.3	11.8	-
	230-400	23.57	24.64	865	2.050		70		51.6	-1	-3	-4	4.1	1.6	11.8	-
230-375	20.17	21.26	858	1.910		69		52.2	-6	-7	-9	3.6	1.5	11.8	-	
VACUUM DISTILLATE	Cuts	Yield	Yield	Den 15°C	S	Conrad.	Anilin	Ni	Va	Total N	Bas N	Pour Pt	Visc cSt	Visc cSt	UOPK	Asp C7
	°C	wt%	vol %	kg/m3	wt%	wt%	Point °C	mg/kg	mg/kg	wt%	mg/kg	C	100°C	150°C		wt %
	375-550	26.07	25.25	933	3.23	0.4	77	0	1	0.096	267	36	9.1	3.4	11.8	0.3
	375-565	28.17	27.22	936	3.27	0.6	77	0	2	0.104	288	37	9.9	3.6	11.8	0.4
	375-580	30.15	29.06	938	3.30	0.9	77	1	3	0.111	308	38	10.7	3.8	11.8	0.6
400-580	26.75	25.68	942	3.36	1.0	78	1	3	0.119	332	40	12.7	4.3	11.8	0.6	
RESIDUE	Cuts	Yield	Yield	Den 15°C	S	Conrad.	Acidity	Ni	Va	Total N		Pour Pt	Visc cSt	Visc cSt	Pene	Asp C7
	°C	wt%	vol %	kg/m3	wt%	wt%	mgKOH/g	mg/kg	mg/kg	wt%		C	100°C	150°C	mm/10	wt%
	> 375	62.26	57.10	986	3.85	14.8	0.3	43	157	0.288		27	271	39	1280	11.2
	> 550	36.19	31.85	1027	4.30	25.2	0.4	73	270	0.427		82	42500	1390	18	19.1
	> 565	34.09	29.88	1031	4.33	26.6	0.5	78	286	0.441		89	90300	2400	13	20.2
> 580	32.11	28.04	1035	4.37	27.9	0.5	82	302	0.455		96	201000	4270	10	21.3	

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