

Reference: CPCBL25Y
Crude: CPC Blend



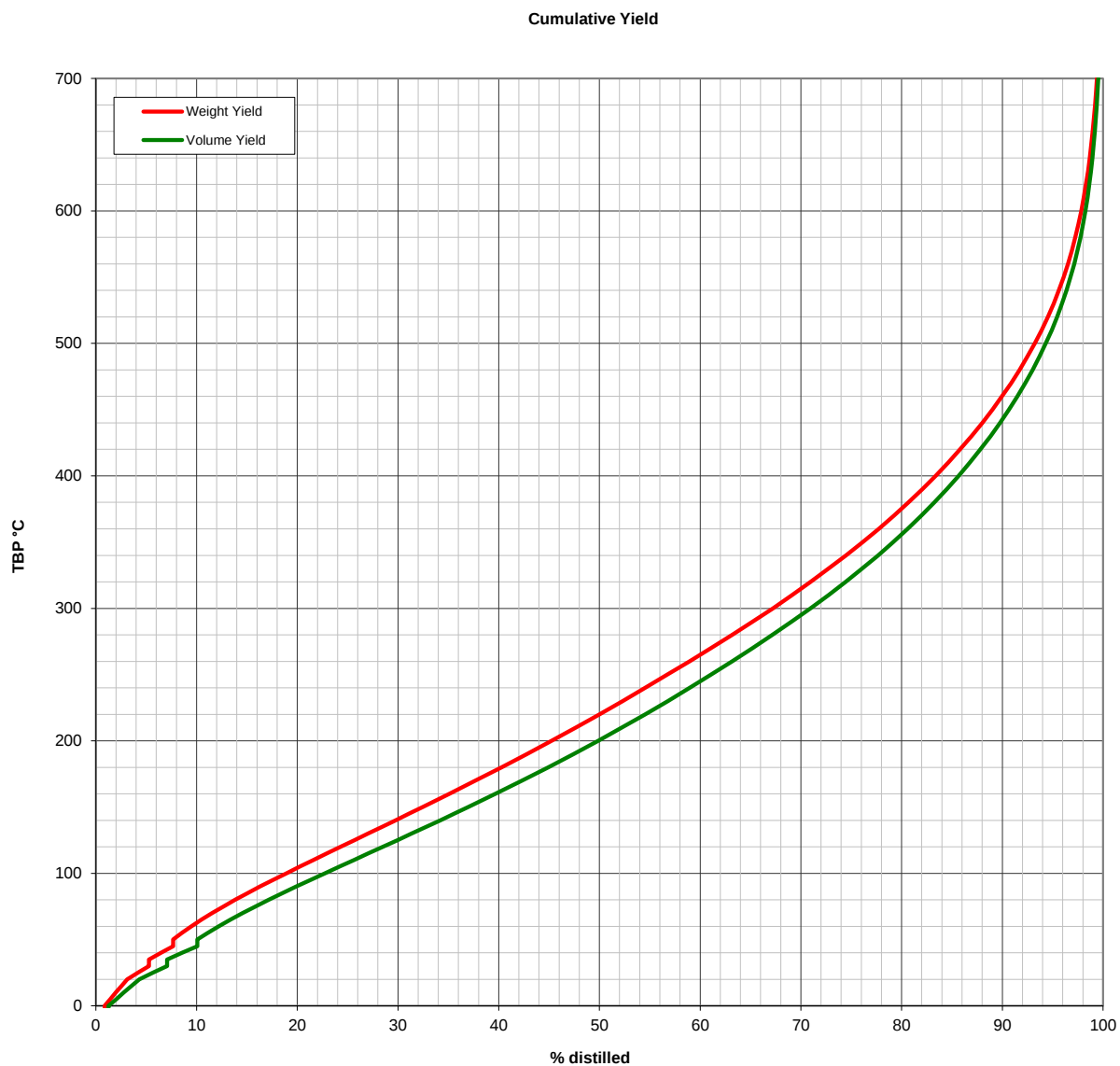
Crude Summary Report

General Information				Molecules (%wt on crude)						Whole Crude Properties					
Reference:	CPCBL25Y	methane + ethane propane isobutane n-butane isopentane n-pentane cyclopentane C6 paraffins C6 naphthenes benzene C7 paraffins C7 naphthenes toluene		0.00 0.22 0.71 2.35 2.23 2.44 0.16 4.79 1.27 0.20 3.91 2.61 0.74		Density @ 15°C (g/cc)					0.7942				
Name:	CPC Blend					API Gravity					46.6				
Origin:	Kazakhstan					Total Sulfur (% wt)					0.58				
Assay Date:	6/27/2025					Pour Point (°C)					-15				
		Viscosity @ 20°C (cSt)					2.8								
Comments:		Viscosity @ 40°C (cSt)					1.7								
		Nickel (ppm)					0.4								
		Vanadium (ppm)					0.5								
		Total Nitrogen (ppm)					190								
		Total Acid Number (mgKOH/g)					0.05								
		Mercaptan Sulfur (ppm)					661								
		Hydrogen Sulfide (ppm)					0.0								
Reid Vapor Pressure (kPa)					56.7										
Cut Data			Atmospheric Cuts									Vacuum Cuts			
Start (°C)	IBP	C5	65	100	150	200	250	300	350	370	370	450	500	550	
End (°C)	FBP	65	100	150	200	250	300	350	370	FBP	450	500	550	FBP	
Yield (% wt)		7.9	8.4	13.5	12.8	11.5	10.5	8.9	3.1	20.8	9.8	4.2	2.9	3.9	
Yield (% vol)		9.8	9.4	14.2	12.9	11.2	9.9	8.2	2.8	18.0	8.7	3.7	2.5	3.2	
Cumulative Yield (% wt)		2.5	10.5	18.9	32.4	45.2	56.7	67.2	76.1	79.2	79.2	89.0	93.2	96.1	
Volume Average B.P. (°C)	227	40.0	83	125	174	224	274	324	360	475	407	474	523	625	
Density @ 15°C (g/cc)	0.7942	0.6390	0.7115	0.7524	0.7850	0.8105	0.8405	0.8585	0.8811	0.9098	0.8876	0.9105	0.9226	0.9590	
API Gravity	46.6	89.9	67.3	56.5	48.7	43.0	36.8	33.2	29.0	24.0	27.8	23.8	21.8	16.0	
UOPK	12.15			11.89	11.85	11.89	11.83	11.93	11.85	12.13	12.05	12.11	12.21	12.23	
Molecular Weight (g/mol)				110	138	171	209	255	289	444	348	449	567	928	
Total Sulfur (% wt)	0.6	0.071	0.148	0.232	0.235	0.255	0.58	0.97	1.20	1.37	1.22	1.28	1.43	1.77	
Mercaptan Sulfur (ppm)	661	353	532	764	1140	836	329								
Total Nitrogen (ppm)	190					1	6	68	215	852	458	693	849	2008	
Basic Nitrogen (ppm)	38					0	2	10	21	176	57	141	191	499	
Total Acid Number (mgKOH/g)	0.05	0.00	0.00	0.01	0.02	0.03	0.06	0.08	0.10	0.14	0.12	0.15	0.17	0.15	
Viscosity @ 20°C (cSt)	2.78					1.28									
Viscosity @ 40°C (cSt)	1.70					0.99	1.55	2.76	5.51	9.86					
Viscosity @ 50°C (cSt)	1.39						1.35	2.31	4.36	7.40	58.9				
Viscosity @ 60°C (cSt)											37.7	12.0	38.0	91.7	
Viscosity @ 100°C (cSt)											10.2	4.53	10.2	18.9	
Viscosity @ 130°C (cSt)														139	
Viscosity @ 150°C (cSt)														41.4	
RON (Clear)		77.1	39.2	56.1	31.6										
MON (Clear)		74.2	53.6	54.7	31.8										
Paraffins (% wt)	50.1	97.9	69.4	42.5	55.0										
Naphthenes (%wt)	29.1	2.1	28.3	41.2	27.7										
Aromatics (% wt)	20.8	0.0	2.3	16.3	17.3										
Pour Point (°C)	-15					-46	-22	1	13	18	29	46	58	30	
Cloud Point (°C)						-45	-20	3							
Freeze Point (°C)						-57	-39	-16							
Smoke Point (mm)						24	20	16							
Cetane Index (D4737A)						40	49	53	61	61					
Naphthalenes (% vol)						0.0	1.5	5.6	7.8						
Aniline Point (°C)						47.6	54.1	63.8	72.0	79.3	84.2	91.6	100.8	106.0	
Hydrogen (% wt)	14.1	16.6	15.5	14.2	14.2	13.8	13.6	13.3	13.0		12.9	12.8	12.8		
Total Wax (% wt)	14.3									16.1	18.9	16.5	15.9	8.7	
C7 Asphaltenes (% wt)	0.0									0.1		0.0	0.0	0.3	
Micro Carbon Residue (% wt)	0.4									2.2		0.1	1.2	10.6	
Vanadium (ppm)	0.5									2.5		0.0	0.0	13.2	
Nickel (ppm)	0.4									1.7		0.0	0.0	9.1	
Iron (ppm)	0.9									4.2		0.0	0.0	22.5	
Sodium (ppm)	4.0														
Mercury (ppb)	2.6														
Arsenic (ppb)	9														

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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				7.1	8.6	10.1	12.2	14.6	17.2	19.9
100	22.7	25.6	28.5	31.4	34.2	37.0	39.7	42.3	44.9	47.4
200	49.9	52.2	54.5	56.8	59.0	61.1	63.2	65.2	67.2	69.1
300	70.9	72.7	74.4	76.1	77.7	79.2	80.6	82.0	83.3	84.5
400	85.7	86.8	87.8	88.8	89.8	90.7	91.5	92.3	93.0	93.7
500	94.3	94.9	95.4	95.9	96.4	96.8	97.1	97.5	97.8	98.0