Reference: CPCBL25Y
Crude: CPC Blend

ExxonMobil

Crude Summary Report

General Information		Molecules (%wt on crude)		Whole Crude Properties	
Reference:	CPCBL25Y	methane + ethane	0.00	Density @ 15°C (g/cc)	0.7942
Name:	CPC Blend	propane	0.22	**API Gravity**	**46.6**
		isobutane	0.71	Total Sulfur (% wt)	0.58
Origin:	Kazakhstan	n-butane	2.35	Pour Point (°C)	-15
		isopentane	2.23	Viscosity @ 20°C (cSt)	2.8
Assay Date:	6/27/2025	n-pentane	2.44	Viscosity @ 40°C (cSt)	1.7
		cyclopentane	0.16	Nickel (ppm)	0.4
Comments:		C6 paraffins	4.79	Vanadium (ppm)	0.5
		C6 naphthenes	1.27	Total Nitrogen (ppm)	190
		benzene	0.20	Total Acid Number (mgKOH/g)	0.05
		C7 paraffins	3.91	Mercaptan Sulfur (ppm)	661
		C7 naphthenes	2.61	Hydrogen Sulfide (ppm)	0.0
		toluene	0.74	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	16.7	59.5	158	
Viscosity @ 60°C (cSt)										37.7	12.0	38.0	91.7	
Viscosity @ 100°C (cSt)										10.2	4.53	10.2	18.9	139
Viscosity @ 130°C (cSt)														41.4
Viscosity @ 150°C (cSt)														22.4
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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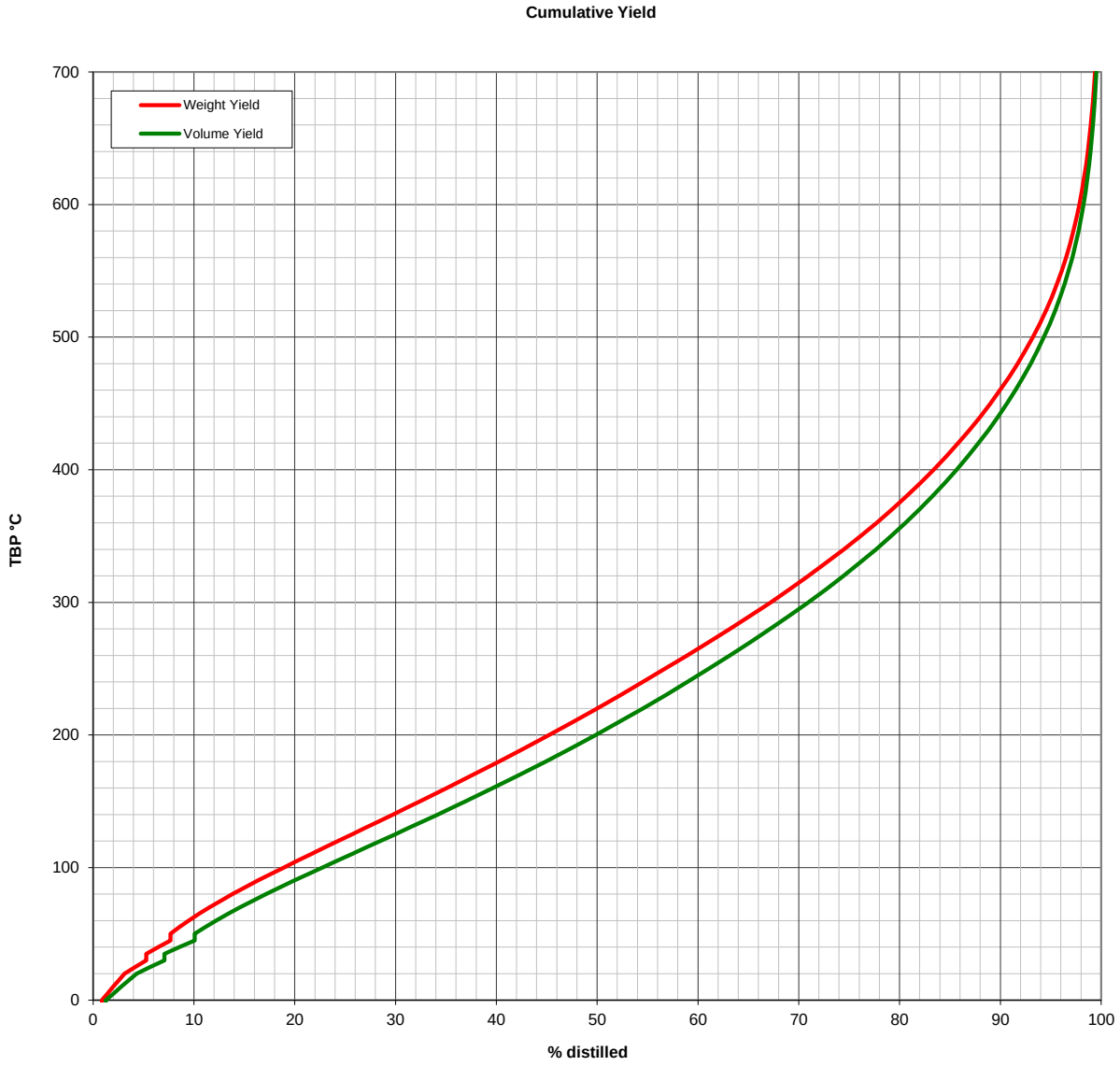
Yield Distribution



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