

Reference: MONDO23X
Crude: Mondo Blend



Crude Summary Report

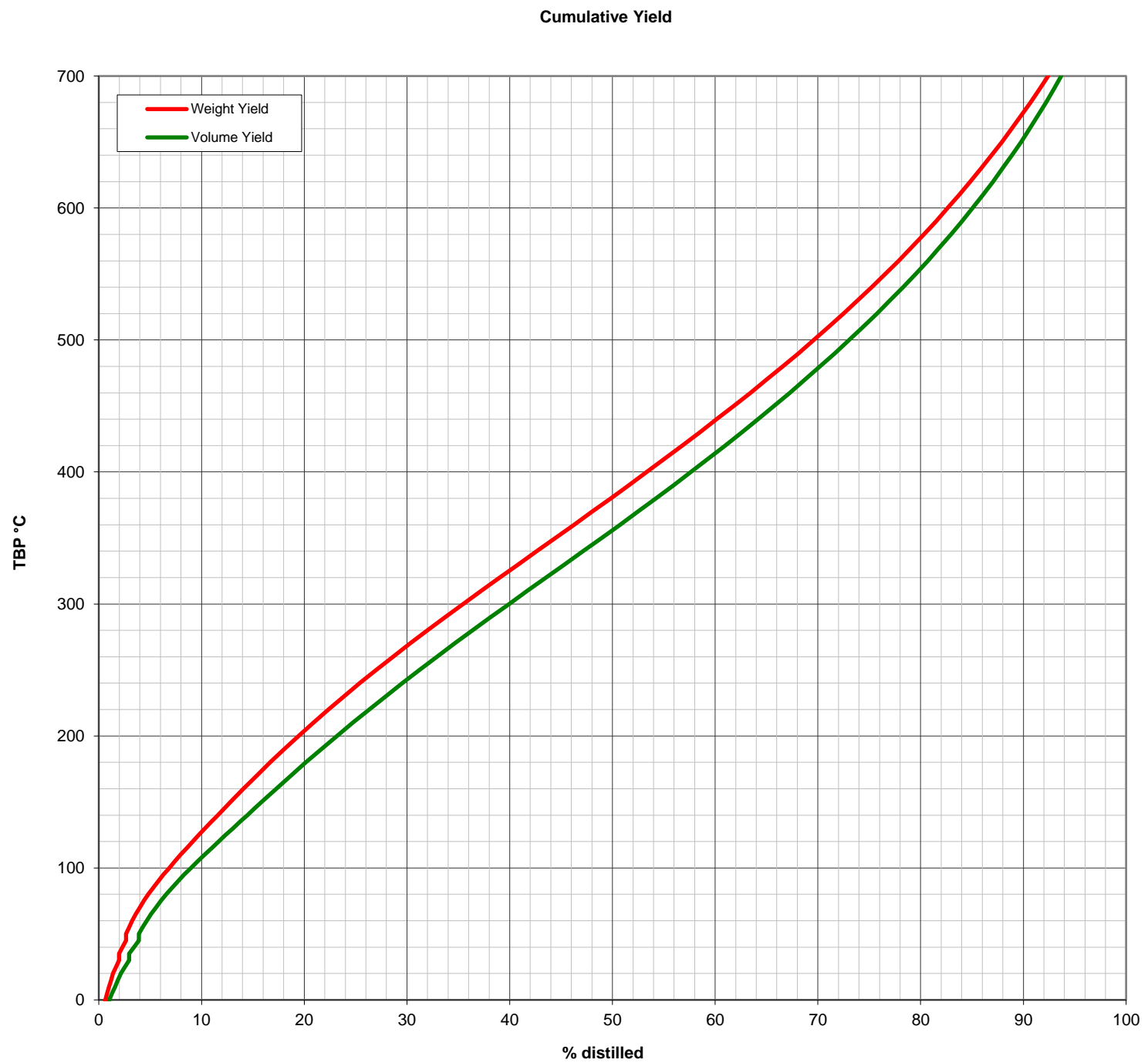
General Information		Molecules (%wt on crude)									Whole Crude Properties			
Reference:	MONDO23X	methane + ethane								0.03	Density @ 15°C (g/cc)	0.8873		
Name:	Mondo Blend	propane								0.35	API Gravity	27.9		
Origin:	Angola	isobutane								0.25	Total Sulfur (% wt)	0.48		
Assay Date:	1/19/2024	n-butane								0.76	Pour Point (°C)	-41		
Comments:		isopentane								0.68	Viscosity @ 20°C (cSt)	29.7		
		n-pentane								0.81	Viscosity @ 40°C (cSt)	14.2		
		cyclopentane								0.13	Nickel (ppm)	28.5		
		C6 paraffins								1.52	Vanadium (ppm)	9.2		
		C6 naphthenes								0.99	Total Nitrogen (ppm)	2847		
		benzene								0.09	Total Acid Number (mgKOH/g)	1.34		
		C7 paraffins								1.29	Mercaptan Sulfur (ppm)	14.0		
		C7 naphthenes								1.71	Hydrogen Sulfide (ppm)	0.0		
		toluene								0.25	Reid Vapor Pressure (kPa)	58.7		

Cut Data	IBP	Atmospheric Cuts									Vacuum Cuts				
		C5	65	100	150	200	250	300	350	370	370	450	500	550	
Start (°C)															
End (°C)	FBP	65	100	150	200	250	300	350	370	FBP	450	500	550	FBP	
Yield (% wt)		2.4	3.3	6.0	6.6	7.6	8.5	9.0	3.6	51.9	13.7	7.8	6.9	23.4	
Yield (% vol)		3.2	3.9	6.9	7.3	8.0	8.7	9.0	3.5	47.5	13.2	7.3	6.5	20.5	
Cumulative Yield (% wt)		1.2	3.6	6.9	12.8	19.4	27.0	35.5	44.4	48.1	48.1	61.8	69.6	76.6	
Volume Average B.P. (°C)	368	40.8	84	125	175	225	275	325	360	543	409	475	524	660	
Density @ 15°C (g/cc)	0.8873	0.6628	0.7427	0.7693	0.8022	0.8341	0.8631	0.8831	0.9014	0.9703	0.9220	0.9466	0.9544	1.0149	
API Gravity	27.9	82.0	59.0	52.4	44.8	38.1	32.4	28.7	25.4	14.3	21.9	17.9	16.7	7.8	
UOPK	11.81			11.63	11.60	11.56	11.53	11.60	11.58	11.71	11.61	11.66	11.81	11.70	
Molecular Weight (g/mol)				109	137	169	205	249	282	547	334	427	543	1028	
Total Sulfur (% wt)	0.48	0.002	0.003	0.009	0.039	0.091	0.200	0.380	0.473	0.77	0.51	0.62	0.73	0.97	
Mercaptan Sulfur (ppm)	14.0	10.8	3.0	0.7	0.1	0.1	0.0								
Total Nitrogen (ppm)	2847					21	84	228	411	5395	892	1673	2473	10143	
Basic Nitrogen (ppm)	875					11	72	151	227	1630	459	785	1044	2771	
Total Acid Number (mgKOH/g)	1.34	0.00	0.02	0.09	0.26	0.59	1.24	2.35	2.84	1.65	3.05	2.85	2.26	0.24	
Viscosity @ 20°C (cSt)	29.7				1.40										
Viscosity @ 40°C (cSt)	14.2				1.06	1.69	3.20	7.50	16.1						
Viscosity @ 50°C (cSt)	10.5					1.46	2.62	5.69	11.3	3952	35.8	180	603		
Viscosity @ 60°C (cSt)										1626	23.5	100	300		
Viscosity @ 100°C (cSt)										127	6.89	18.8	40.5	33819	
Viscosity @ 130°C (cSt)														2874	
Viscosity @ 150°C (cSt)														833	
RON (Clear)		76.8	51.5	63.8	46.2										
MON (Clear)		75.1	63.7	62.0	45.0										
Paraffins (% wt)	18.9	94.6	52.7	31.5	40.7										
Naphthenes (%wt)	35.1	5.4	44.8	55.9	40.6										
Aromatics (% wt)	46.0	0.0	2.4	12.6	18.7										
Pour Point (°C)	-41						-58	-37	-14	-2	25	14	30	41	71
Cloud Point (°C)							-57	-35	-13						
Freeze Point (°C)							-68	-52	-31						
Smoke Point (mm)						26	21	16							
Cetane Index (D4737A)						33	39	44	50	52					
Naphthalenes (% vol)						0.1	3.1	8.7	10.8						
Aniline Point (°C)				51.1	53.4	58.1	63.2	66.7	68.1		72.6	79.2	82.4		
Hydrogen (% wt)	12.9	16.5	15.2	14.2	13.9	13.3	13.1	12.8	12.6		12.4	12.2	12.2		
Total Wax (% wt)	2.5									1.2	3.7	1.4	0.3	0.0	
C7 Asphaltenes (% wt)	2.9									5.5	0.0	0.0	12.2		
Micro Carbon Residue (% wt)	5.5									10.7	0.4	2.8	22.7		
Vanadium (ppm)	9.2									17.8	0.0	0.0	39.4		
Nickel (ppm)	28.5									54.9	0.0	0.0	121.7		
Iron (ppm)	11.6									22.3	0.0	0.0	49.5		
Sodium (ppm)	0.1														
Mercury (ppb)	1.0														
Arsenic (ppb)	100														

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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				2.9	3.4	3.9	4.7	5.5	6.6	7.7
100	9.0	10.3	11.7	13.1	14.5	15.9	17.3	18.7	20.2	21.7
200	23.2	24.7	26.3	27.9	29.6	31.2	32.9	34.6	36.4	38.1
300	39.9	41.7	43.5	45.3	47.1	48.9	50.7	52.5	54.2	56.0
400	57.7	59.3	61.0	62.6	64.2	65.7	67.2	68.7	70.2	71.6
500	73.0	74.4	75.7	77.0	78.3	79.5	80.7	81.8	82.9	84.0