

Reference: AZRBT24Y
Crude: Azeri BTC



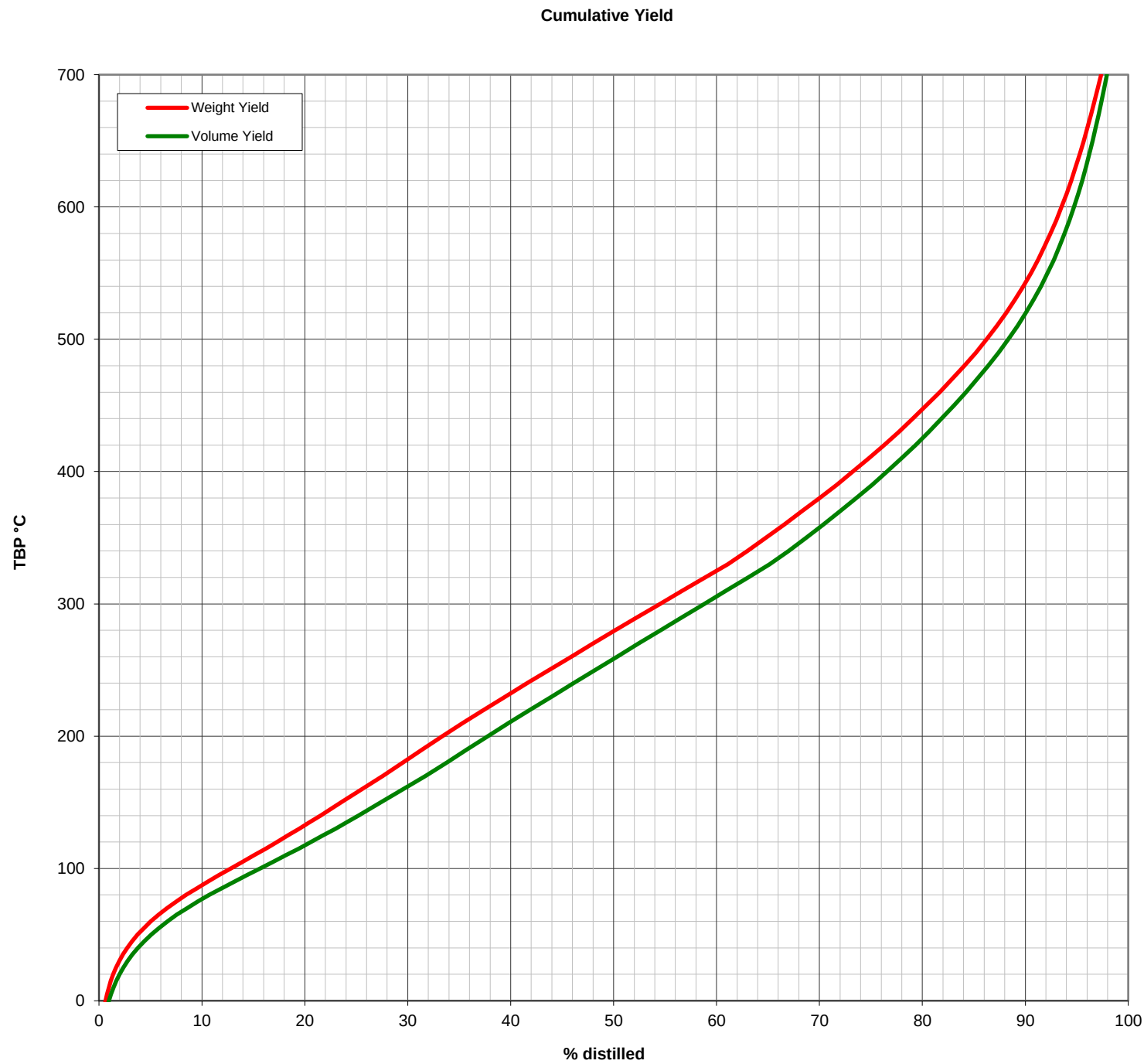
Crude Summary Report

General Information				Molecules (%wt on crude)							Whole Crude Properties								
Reference:	AZRBT24Y			methane + ethane			0.00		Density @ 15°C (g/cc)			0.8296							
Name:	Azeri Btc			propane			0.28		API Gravity			39.0							
Origin:	Azerbaijan			isobutane			0.23		Total Sulfur (% wt)			0.16							
				n-butane			0.71		Pour Point (°C)			-33							
				isopentane			0.61		Viscosity @ 20°C (cSt)			5.9							
Assay Date:	7/19/2024			n-pentane			0.91		Viscosity @ 40°C (cSt)			3.7							
Comments:				cyclopentane			0.14		Nickel (ppm)			2.0							
				C6 paraffins			2.40		Vanadium (ppm)			0.3							
				C6 naphthenes			1.23		Total Nitrogen (ppm)			488							
				benzene			0.19		Total Acid Number (mgKOH/g)			0.43							
				C7 paraffins			2.55		Mercaptan Sulfur (ppm)			44.0							
				C7 naphthenes			2.30		Hydrogen Sulfide (ppm)			0.0							
				toluene			0.68		Reid Vapor Pressure (kPa)			39.9							
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)			4.6	7.0	10.7	9.8	10.4	10.8	10.3	3.5	31.7	12.1	5.9	4.3	9.5				
Yield (% vol)			5.9	8.1	11.7	10.4	10.4	10.6	9.9	3.3	28.0	11.1	5.3	3.8	7.8				
Cumulative Yield (% wt)			1.2	5.8	12.8	23.5	33.4	43.7	54.5	64.8	68.3	68.3	80.4	86.2	90.5				
Volume Average B.P. (°C)		280	44.6	83	124	174	225	275	324	360	504	408	474	523	650				
Density @ 15°C (g/cc)		0.8296	0.6520	0.7184	0.7564	0.7840	0.8222	0.8421	0.8617	0.8807	0.9369	0.9037	0.9174	0.9322	0.9991				
API Gravity		39.0	85.5	65.4	55.5	48.9	40.5	36.5	32.6	29.1	19.5	25.0	22.7	20.2	10.0				
UOPK		12.03			11.82	11.86	11.72	11.82	11.88	11.85	11.93	11.84	12.03	12.09	11.85				
Molecular Weight (g/mol)					109	138	170	209	254	290	482	341	445	560	995				
Total Sulfur (% wt)		0.16	0.003	0.006	0.011	0.023	0.048	0.099	0.203	0.266	0.352	0.249	0.295	0.370	0.51				
Mercaptan Sulfur (ppm)		44.0	6.5	22.2	50.1	77.3	79.3	69.1											
Total Nitrogen (ppm)		488					2	31	155	325	1442	481	821	1383	3083				
Basic Nitrogen (ppm)		165					2	15	61	110	483	169	291	447	1020				
Total Acid Number (mgKOH/g)		0.43	0.00	0.02	0.07	0.20	0.39	0.60	0.79	0.88	0.59	0.87	0.70	0.53	0.20				
Viscosity @ 20°C (cSt)		5.90	1.42																
Viscosity @ 40°C (cSt)		3.72	1.07									1.68		3.03	6.17	11.4			
Viscosity @ 50°C (cSt)		3.07										1.45		2.49	4.79	8.35			
Viscosity @ 60°C (cSt)														140					
Viscosity @ 100°C (cSt)												83.6		13.3	43.0	119			
Viscosity @ 130°C (cSt)												18.3		4.83	11.3	23.7			
Viscosity @ 150°C (cSt)																503			
																123			
																60.1			
RON (Clear)			76.1	40.2	59.5	33.5													
MON (Clear)			74.6	57.0	57.3	31.5													
Paraffins (% wt)		32.0	95.3	62.7	38.1	49.2													
Naphthenes (%wt)		40.1	4.7	34.1	44.8	35.2													
Aromatics (% wt)		28.0	0.0	3.3	17.1	15.5													
Pour Point (°C)		-33										-52		-30	-3	13	33		
Cloud Point (°C)												-50		-27	0				
Freeze Point (°C)												-64		-46	-23				
Smoke Point (mm)												27		23	19				
Cetane Index (D4737A)												41		44	53	59	62		
Naphthalenes (% vol)												0.2		2.3	4.3	4.7			
Aniline Point (°C)												51.0		54.3	61.7	69.2	75.4	79.8	
Hydrogen (% wt)		13.6	16.5	15.3	14.0	14.2	13.7	13.7	13.5	13.1		86.2	93.2	96.6					
Total Wax (% wt)		10.9									8.8	12.8	12.9	12.7					
												13.0	9.1	8.4	3.4				
C7 Asphaltenes (% wt)		0.0										0.2			0.0	0.0	0.5		
Micro Carbon Residue (% wt)		1.2										3.7			0.0	0.8	12.1		
Vanadium (ppm)		0.3										0.9			0.0	0.0	3.2		
Nickel (ppm)		2.0										6.2			0.0	0.0	20.7		
Iron (ppm)		1.0										3.3			0.0	0.0	11.1		
Sodium (ppm)		5.3																	
Mercury (ppb)		1.0																	
Arsenic (ppb)		23																	

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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				2.8	3.8	5.1	6.7	8.5	10.7	13.1
100	15.7	18.2	20.6	23.0	25.2	27.4	29.6	31.7	33.8	35.8
200	37.8	39.8	41.9	44.0	46.1	48.2	50.3	52.4	54.6	56.7
300	58.8	60.9	63.1	65.2	67.0	68.7	70.4	72.0	73.6	75.1
400	76.6	78.0	79.3	80.6	81.9	83.1	84.2	85.3	86.4	87.4
500	88.3	89.2	90.1	90.8	91.5	92.2	92.8	93.3	93.8	94.3