

Crude Summary Report

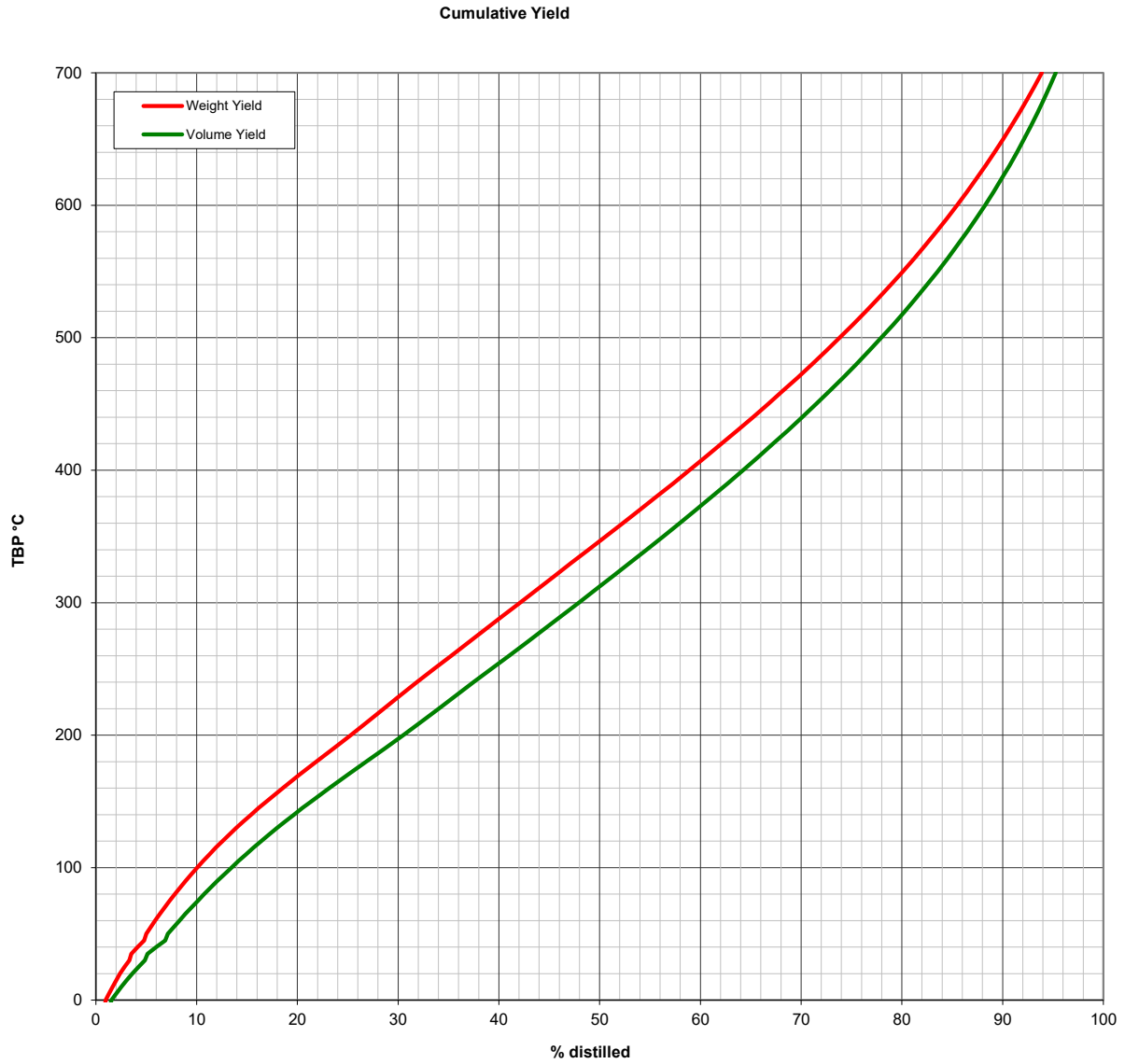
General Information		Molecules (%wt on crude)										Whole Crude Properties							
Reference:	UPZAK26B	methane + ethane	0.00	Density @ 15°C (g/cc)	0.8577														
Name:	Upper Zakum	propane	0.38	API Gravity	33.4														
Origin:	Abu Dhabi (UAE)	isobutane	0.37	Total Sulfur (% wt)	2.09														
Assay Date:	1/23/2026	n-butane	1.26	Pour Point (°C)	-21														
Comments:		isopentane	0.97	Viscosity @ 20°C (cSt)	10.1														
		n-pentane	1.37	Viscosity @ 40°C (cSt)	5.8														
		cyclopentane	0.10	Nickel (ppm)	10.1														
		C6 paraffins	2.42	Vanadium (ppm)	11.2														
		C6 naphthenes	0.52	Total Nitrogen (ppm)	873														
		benzene	0.08	Total Acid Number (mgKOH/g)	0.07														
		C7 paraffins	2.34	Mercaptan Sulfur (ppm)	26.0														
		C7 naphthenes	0.82	Hydrogen Sulfide (ppm)	0.0														
		toluene	0.38	Reid Vapor Pressure (kPa)	66.7														

Cut Data		Atmospheric Cuts										Vacuum Cuts			
Start (°C)	IBP	IBP	C5	65	100	150	200	250	300	350	370	370	450	500	550
End (°C)	FBP	C4	65	100	150	200	250	300	350	370	FBP	450	500	550	FBP
Yield (% wt)		2.0	4.3	3.7	6.9	8.4	8.3	8.5	8.5	3.4	46.0	12.8	7.1	6.3	19.9
Yield (% vol)		3.1	5.8	4.6	7.9	9.1	8.7	8.7	8.4	3.2	40.5	11.9	6.5	5.6	16.5
Cumulative Yield (% wt)		2.0	6.3	10.1	16.9	25.3	33.6	42.1	50.6	54.0	100.0	66.7	73.8	80.1	100.0
Volume Average B.P. (°C)	331	39.9	83	126	175	225	275	325	360	536		409	474	524	656
Density @ 15°C (g/cc)	0.8577	0.6356	0.6937	0.7410	0.7819	0.8085	0.8407	0.8660	0.8902	0.9721	0.9122	0.9387	0.9575	1.0337	
API Gravity	33.4	91.1	72.4	59.4	49.4	43.4	36.7	31.8	27.4	14.0	23.5	19.2	16.2	5.3	
UOPK	11.98			12.08	11.90	11.92	11.84	11.83	11.73	11.65	11.73	11.76	11.78	11.48	
Molecular Weight (g/mol)				111	139	172	210	254	286	536		339	432	540	983
Total Sulfur (% wt)	2.1	0.012	0.029	0.046	0.099	0.248	0.74	1.43	1.86	3.94	2.28	2.95	3.61	5.46	
Mercaptan Sulfur (ppm)	26.0		3.7	4.4	6.0	7.5	6.4								
Total Nitrogen (ppm)	873					0	7	107	306	1854	652	1119	1479	3004	
Basic Nitrogen (ppm)	264					1	8	46	94	557	168	282	359	966	
Total Acid Number (mgKOH/g)	0.07	0.00	0.00	0.00	0.01	0.02	0.04	0.09	0.13	0.12	0.17	0.18	0.16	0.05	
Viscosity @ 20°C (cSt)	10.1					1.34									
Viscosity @ 40°C (cSt)	5.79					1.02	1.55	2.69	5.45	9.93					
Viscosity @ 50°C (cSt)	4.59						1.35	2.24	4.29	7.41	606	18.0	73.1	271	
Viscosity @ 60°C (cSt)											315	12.8	46.1	152	
Viscosity @ 100°C (cSt)											46.8	4.73	11.9	28.2	2942
Viscosity @ 130°C (cSt)															494
Viscosity @ 150°C (cSt)															199
RON (Clear)		75.4	28.8	49.1	33.9										
MON (Clear)		72.7	43.2	49.4	33.0										
Paraffins (% wt)	33.2	97.3	79.1	53.9	55.7										
Naphthenes (%wt)	24.7	2.7	19.1	29.5	24.0										
Aromatics (% wt)	42.1	0.0	1.8	16.7	20.2										
Pour Point (°C)	-21						-44	-22	0	13	28	27	39	46	50
Cloud Point (°C)							-42	-19	3						
Freeze Point (°C)							-59	-37	-16						
Smoke Point (mm)							26	22	18						
Cetane Index (D4737A)							42	50	53	58	57				
Naphthalenes (% vol)							0.1	2.7	8.3	10.9					
Aniline Point (°C)				47.1	51.4	59.9	66.8	71.2	73.8			76.3	79.3	82.5	
Hydrogen (% wt)	13.2	16.6	15.7	14.3	14.2	13.9	13.5	13.1	12.7			12.4	12.1	11.8	
Total Wax (% wt)	12.4										9.8	19.4	14.4	9.9	2.1
C7 Asphaltenes (% wt)	1.7										3.7	0.0	0.0	8.6	
Micro Carbon Residue (% wt)	5.1										11.1	0.1	1.6	25.0	
Vanadium (ppm)	11.2										24.3	0.0	0.0	56.1	
Nickel (ppm)	10.1										22.0	0.0	0.0	50.9	
Iron (ppm)	0.3										0.6	0.0	0.0	1.4	
Sodium (ppm)	0.8														
Mercury (ppb)	1.0														
Arsenic (ppb)	5														

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Reference: **UPZAK26B**
 Crude: **Upper Zakum**

Yield Distribution



Cumulative Volume % Distilled at 10 Degree C (TBP) Intervals

	0	10	20	30	40	50	60	70	80	90
0				4.9	6.0	7.1	8.3	9.5	10.7	12.1
100	13.5	14.9	16.4	18.0	19.6	21.4	23.2	25.0	26.8	28.7
200	30.5	32.3	34.0	35.7	37.5	39.2	41.0	42.8	44.5	46.2
300	47.9	49.6	51.3	53.0	54.7	56.3	57.9	59.5	61.1	62.7
400	64.2	65.7	67.2	68.7	70.1	71.5	72.9	74.2	75.5	76.7
500	78.0	79.1	80.3	81.4	82.5	83.5	84.6	85.5	86.5	87.4