

Crude Summary Report

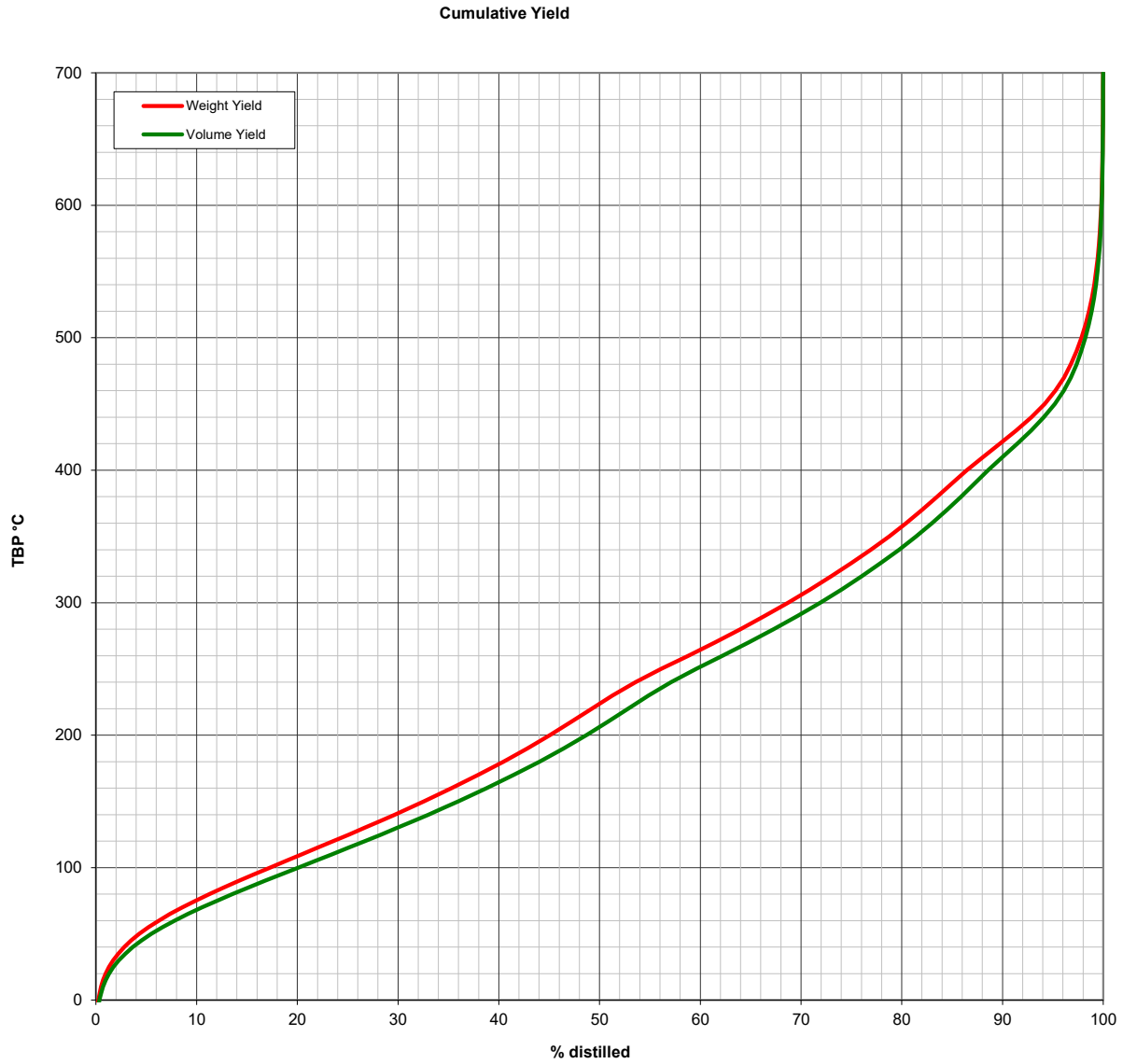
General Information		Molecules (%wt on crude)										Whole Crude Properties			
Reference:	TAPIS24S	methane + ethane	0.00	Density @ 15°C (g/cc)	0.7902										
Name:	Tapis	propane	0.06	API Gravity	47.5										
Origin:	Malaysia	isobutane	0.13	Total Sulfur (% wt)	0.03										
Assay Date:	8/16/2024	n-butane	0.77	Pour Point (°C)	6										
Comments:		isopentane	0.98	Viscosity @ 20°C (cSt)	2.3										
		n-pentane	1.74	Viscosity @ 40°C (cSt)	2.0										
		cyclopentane	0.11	Nickel (ppm)	0.6										
		C6 paraffins	6.38	Vanadium (ppm)	0.0										
		C6 naphthenes	1.23	Total Nitrogen (ppm)	122										
		benzene	0.15	Total Acid Number (mgKOH/g)	0.15										
		C7 paraffins	4.79	Mercaptan Sulfur (ppm)	2.3										
		C7 naphthenes	4.24	Hydrogen Sulfide (ppm)	0.0										
		toluene	0.39	Reid Vapor Pressure (kPa)	46.7										

Cut Data	IBP FBP	Atmospheric Cuts										Vacuum Cuts			
		IBP C4	C5 65	65 100	100 150	150 200	200 250	250 300	300 350	350 370	370 FBP	370 450	450 500	500 550	550 FBP
Yield (% wt)		1.0	6.7	9.8	15.2	12.5	11.0	12.6	10.0	3.3	18.0	12.2	3.7	1.5	0.7
Yield (% vol)		1.3	8.2	10.8	15.6	12.7	10.9	12.3	9.5	3.1	15.5	10.7	3.0	1.2	0.6
Cumulative Yield (% wt)		1.0	7.6	17.4	32.6	45.1	56.1	68.7	78.7	82.0	100.0	94.2	97.8	99.3	100.0
Volume Average B.P. (°C)	223		45.6	83	124	174	226	274	324	360	436	409	471	521	587
Density @ 15°C (g/cc)	0.7902		0.6476	0.7171	0.7637	0.7796	0.8031	0.8114	0.8360	0.8484	0.9193	0.9004	0.9577	0.9617	0.9815
API Gravity	47.5		87.0	65.8	53.7	50.0	44.6	42.8	37.7	35.2	22.3	25.6	16.2	15.6	12.6
UOPK	12.18				11.71	11.93	12.01	12.26	12.25	12.31	11.80	11.89	11.50	11.71	11.78
Molecular Weight (g/mol)					109	138	174	215	262	302	376	345	413	527	733
Total Sulfur (% wt)	0.03		0.000	0.000	0.001	0.004	0.012	0.031	0.063	0.068	0.088	0.058	0.100	0.188	0.324
Mercaptan Sulfur (ppm)	2.3			0.43	1.3	2.5	4.5	4.3							
Total Nitrogen (ppm)	122						12	14	47	107	597	236	553	1165	5872
Basic Nitrogen (ppm)	38						3	9	28	53	177	99	198	360	1037
Total Acid Number (mgKOH/g)	0.15		0.00	0.00	0.01	0.02	0.05	0.09	0.15	0.21	0.61	0.43	0.95	1.12	1.00
Viscosity @ 20°C (cSt)	2.35					1.26									
Viscosity @ 40°C (cSt)	1.99					0.97	1.73	3.08	5.79	9.99					
Viscosity @ 50°C (cSt)	1.85						1.49	2.54	4.51	7.41	52.1	20.8	189	3919	
Viscosity @ 60°C (cSt)											33.2	14.6	105	1576	
Viscosity @ 100°C (cSt)											8.99	5.07	19.6	117	5986
Viscosity @ 130°C (cSt)															657
Viscosity @ 150°C (cSt)															221
RON (Clear)			75.8	33.0	53.9	28.2									
MON (Clear)			73.4	47.0	54.1	29.4									
Paraffins (% wt)	53.8		98.1	75.3	42.2	56.3									
Naphthenes (%wt)	28.3		1.9	23.4	46.9	27.4									
Aromatics (% wt)	17.9		0.0	1.4	11.0	16.3									
Pour Point (°C)	6						-34	-11	15	31	54	50	67	76	44
Cloud Point (°C)							-32	-8	18						
Freeze Point (°C)							-57	-27	-6						
Smoke Point (mm)							18	17	16						
Cetane Index (D4737A)							43	54	68	73	79				
Naphthalenes (% vol)							0.1	0.1	0.8	2.3					
Aniline Point (°C)					46.9	54.7	66.7	73.7	78.4	84.2		89.8	94.5	97.8	
Hydrogen (% wt)	14.2		16.5	15.7	14.4	14.3	14.0	14.2	13.9	13.8		12.8	12.0	11.9	
Total Wax (% wt)	33.6										63.2	74.8	54.7	17.4	2.5
C7 Asphaltenes (% wt)	0.0										0.0		0.0	0.0	0.9
Micro Carbon Residue (% wt)	0.4										2.5		2.8	10.5	25.5
Vanadium (ppm)	0.0										0.1		0.0	0.0	2.1
Nickel (ppm)	0.6										3.5		0.0	0.0	89.0
Iron (ppm)	1.0										5.6		0.0	0.0	141.8
Sodium (ppm)	16.2														
Mercury (ppb)	14.6														
Arsenic (ppb)	10														

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Reference: **TAPIS24S**
 Crude: **Tapis**

Yield Distribution



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

	0	10	20	30	40	50	60	70	80	90
0				2.3	3.7	5.5	7.8	10.5	13.6	16.8
100	20.1	23.4	26.7	29.9	33.0	36.0	38.8	41.5	44.0	46.4
200	48.7	50.8	52.8	54.9	57.1	59.6	62.2	64.8	67.3	69.7
300	71.9	74.0	76.0	77.9	79.7	81.4	83.0	84.5	85.9	87.2
400	88.6	90.0	91.5	92.8	94.1	95.2	96.1	96.8	97.4	97.8
500	98.2	98.6	98.8	99.1	99.3	99.4	99.6	99.7	99.7	99.8