

Reference: TAPIS23Y
Crude: Tapis



Crude Summary Report

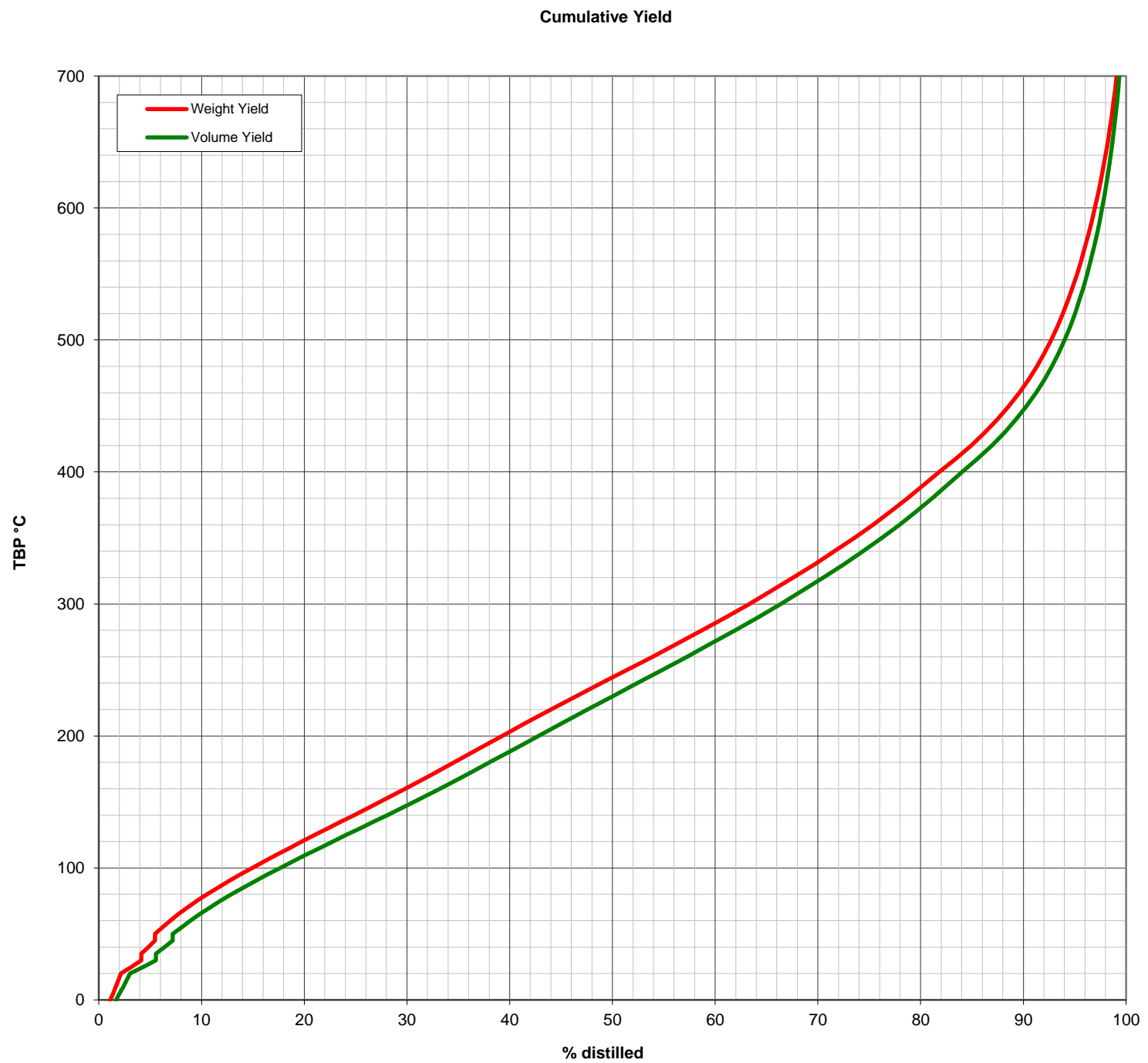
General Information		Molecules (%wt on crude)				Whole Crude Properties			
Reference:	TAPIS23Y	methane + ethane	0.02	Density @ 15°C (g/cc)	0.7978				
Name:	Tapis	propane	0.24	API Gravity	45.8				
Origin:	Malaysia	isobutane	0.37	Total Sulfur (% wt)	0.03				
Assay Date:	5/26/2023	n-butane	0.59	Pour Point (°C)	3				
Comments:		isopentane	1.21	Viscosity @ 20°C (cSt)	2.5				
		n-pentane	0.89	Viscosity @ 40°C (cSt)	1.9				
		cyclopentane	0.09	Nickel (ppm)	1.4				
		C6 paraffins	2.82	Vanadium (ppm)	0.0				
		C6 naphthenes	0.96	Total Nitrogen (ppm)	221				
		benzene	0.15	Total Acid Number (mgKOH/g)	0.21				
		C7 paraffins	3.07	Mercaptan Sulfur (ppm)	16.0				
		C7 naphthenes	2.46	Hydrogen Sulfide (ppm)	0.0				
		toluene	0.84	Reid Vapor Pressure (kPa)	72.6				

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)		5.9	7.2	12.4	11.9	12.2	11.9	10.2	3.5	22.9	11.5	4.1	2.5	4.8			
Yield (% vol)		7.1	7.8	13.0	12.1	12.0	11.5	9.8	3.4	20.4	10.7	3.7	2.2	3.8			
Cumulative Yield (% wt)		1.9	7.8	14.9	27.4	39.3	51.4	63.3	73.5	77.1	77.1	88.6	92.7	95.2			
Volume Average B.P. (°C)	246	40.2	83	125	175	225	275	324	360	474	407	473	523	634			
Density @ 15°C (g/cc)	0.7978	0.6537	0.7309	0.7591	0.7801	0.8037	0.8201	0.8284	0.8389	0.8925	0.8523	0.8820	0.9133	1.0049			
API Gravity	45.8	84.9	62.1	54.9	49.8	44.5	41.0	39.2	37.1	27.0	34.5	28.8	23.4	9.2			
UOPK	12.25			11.79	11.93	11.99	12.13	12.36	12.45	12.36	12.55	12.50	12.34	11.71			
Molecular Weight (g/mol)				110	139	173	214	265	305	460	365	467	576	921			
Total Sulfur (% wt)	0.03	0.000	0.000	0.001	0.004	0.014	0.033	0.052	0.055	0.085	0.045	0.068	0.106	0.184			
Mercaptan Sulfur (ppm)	16.0						2	11	52	916	173	359	685	3305			
Total Nitrogen (ppm)	221						2	11	31	352	92	164	343	1141			
Basic Nitrogen (ppm)	87						2	11	55	352	92	164	343	1141			
Total Acid Number (mgKOH/g)	0.21	0.01	0.01	0.01	0.02	0.04	0.08	0.17	0.21	0.70	0.35	1.15	1.36	0.81			
Viscosity @ 20°C (cSt)	2.53				1.22												
Viscosity @ 40°C (cSt)	1.89				0.95	1.69	3.09	5.31	8.22								
Viscosity @ 50°C (cSt)	1.66					1.46	2.56	4.23	6.33	56.8							
Viscosity @ 60°C (cSt)										37.5	12.6	40.8	115				
Viscosity @ 100°C (cSt)										10.9	9.44	27.7	71.6				
Viscosity @ 130°C (cSt)											3.96	8.78	17.5	1882			
Viscosity @ 150°C (cSt)														347			
RON (Clear)		80.7	40.9	63.5	26.7												
MON (Clear)		78.9	56.2	60.6	28.3												
Paraffins (% wt)	52.0	97.8	69.9	42.3	63.5												
Naphthenes (%wt)	27.7	2.2	27.6	36.5	18.9												
Aromatics (% wt)	20.3	0.0	2.5	21.2	17.6												
Pour Point (°C)	3						-32	-7	16	27	51	37	43	45	46		
Cloud Point (°C)							-30	-4	18								
Freeze Point (°C)							-52	-26	-1								
Smoke Point (mm)							30	26	19								
Cetane Index (D4737A)							43	53	64	77	85						
Naphthalenes (% vol)							0.1	4.0	8.1	8.9							
Aniline Point (°C)																	
Hydrogen (% wt)	14.1			50.2	59.9	71.3	81.5	91.8	97.2		102.9	104.7	100.1				
Total Wax (% wt)	34.6	16.5	15.5	13.9	14.4	14.0	14.2	14.2	14.2		13.9	13.6	13.0				
										53.3	65.1	66.6	50.5	15.2			
C7 Asphaltenes (% wt)	0.1									0.4		0.0	0.0	2.0			
Micro Carbon Residue (% wt)	0.6									2.4		0.1	1.1	10.9			
Vanadium (ppm)	0.0									0.0		0.0	0.0	0.1			
Nickel (ppm)	1.4									6.0		0.0	0.0	28.9			
Iron (ppm)	0.3									1.4		0.0	0.0	6.7			
Sodium (ppm)	1.0																
Mercury (ppb)	20.0																
Arsenic (ppb)	121																

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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				5.6	6.4	7.2	8.9	10.8	12.9	15.2
100	17.7	20.2	22.8	25.4	28.1	30.7	33.2	35.7	38.1	40.4
200	42.8	45.2	47.6	50.0	52.4	54.9	57.3	59.6	61.9	64.2
300	66.4	68.5	70.5	72.5	74.4	76.2	77.9	79.6	81.1	82.6
400	84.1	85.5	86.9	88.2	89.3	90.3	91.2	92.0	92.8	93.4
500	94.0	94.5	95.0	95.5	95.9	96.2	96.6	96.9	97.2	97.4