

## Crude Summary Report

General Information		Molecules (%wt on crude)										Whole Crude Properties			
Reference:	TERGC23S	methane + ethane	0.00	Density @ 15°C (g/cc)	0.6768										
Name:	Terengganu Condensate	propane	0.44	API Gravity	77.5										
Origin:	Malaysia	isobutane	0.16	Total Sulfur (% wt)	0.00										
Assay Date:	3/14/2025	n-butane	1.45	Pour Point (°C)	-32										
Comments:		isopentane	19.17	Viscosity @ 20°C (cSt)	0.8										
		n-pentane	21.82	Viscosity @ 40°C (cSt)	0.7										
		cyclopentane	1.00	Nickel (ppm)	0.0										
		C6 paraffins	21.48	Vanadium (ppm)	0.0										
		C6 naphthenes	5.74	Total Nitrogen (ppm)	24										
		benzene	0.46	Total Acid Number (mgKOH/g)	0.01										
		C7 paraffins	7.18	Mercaptan Sulfur (ppm)	3.5										
		C7 naphthenes	6.68	Hydrogen Sulfide (ppm)	0.0										
		toluene	0.69	Reid Vapor Pressure (kPa)	86.6										

  

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	60.9	15.7	14.8	3.9	1.7	0.7	0.1	0.0	0.1	0.1	0.0	0.0	0.0
Yield (% vol)		2.6	63.5	14.7	13.5	3.4	1.5	0.6	0.1	0.0	0.1	0.1	0.0	0.0	0.0
Cumulative Yield (% wt)		2.0	62.9	78.6	93.4	97.3	99.0	99.7	99.8	99.9	100.0	100.0	100.0	100.0	100.0
Volume Average B.P. (°C)	66		39.5	80	121	171	223	268	323	360	401	399	460	507	
Density @ 15°C (g/cc)	0.6768		0.6571	0.7264	0.7552	0.7841	0.7999	0.8269	0.8301	0.8256	0.8226	0.8224	0.8275	0.8441	
API Gravity	77.5		83.8	63.3	55.8	48.9	45.3	39.5	38.9	39.8	40.4	40.5	39.4	36.1	
UOPK	12.53				11.80	11.83	12.03	11.98	12.33	12.65	12.96	12.95	13.25	13.26	
Molecular Weight (g/mol)					108	136	172	206	263	311	370	368	478	589	
Total Sulfur (% wt)	0.00		0.000	0.000	0.000	0.001	0.010	0.047	0.151	0.232	0.308	0.306	0.397	0.447	
Mercaptan Sulfur (ppm)	3.5			0.9	2.2	5.3	6.5	6.7							
Total Nitrogen (ppm)	24						18	22	60	107	230	218	682	1555	
Basic Nitrogen (ppm)	1						9	31	37	28	29	28	57	219	
Total Acid Number (mgKOH/g)	0.01		0.00	0.00	0.02	0.05	0.14	0.29	0.62	0.90	1.16	1.15	1.33	1.20	
Viscosity @ 20°C (cSt)	0.84					1.25									
Viscosity @ 40°C (cSt)	0.67					0.98	1.52	2.46	4.98	8.56					
Viscosity @ 50°C (cSt)	0.61						1.34	2.09	3.99	6.53	11.7	11.4	29.6	63.9	
Viscosity @ 60°C (cSt)											8.71	8.54	20.2	40.2	
Viscosity @ 100°C (cSt)											3.60	3.55	6.49	10.4	
Viscosity @ 130°C (cSt)															
Viscosity @ 150°C (cSt)															
RON (Clear)			76.8	41.6	63.6	16.4									
MON (Clear)			73.6	59.1	63.1	17.5									
Paraffins (% wt)	79.7		98.2	64.5	33.2	67.8									
Naphthenes (%wt)	17.7		1.8	33.6	57.6	17.0									
Aromatics (% wt)	2.7		0.0	1.9	9.2	15.1									
Pour Point (°C)	-32							-39	-13	13	23	33	29	33	37
Cloud Point (°C)								-35	-10	15					
Freeze Point (°C)								-62	-33	-7					
Smoke Point (mm)								21	18	16					
Cetane Index (D4737A)								39	54	57	76	94			
Naphthalenes (% vol)								0.0	0.3	1.8	4.3				
Aniline Point (°C)					22.3	24.6	45.2	64.0	77.6	83.0		85.6	88.2	90.2	
Hydrogen (% wt)	15.9		16.6	15.4	14.4	14.6	13.6	14.4	14.1	14.0		14.1	12.2	11.5	
Total Wax (% wt)	1.2										57.3	57.3	60.1	72.1	
C7 Asphaltenes (% wt)	0.0										0.0		0.0	0.0	
Micro Carbon Residue (% wt)	0.0										0.0		0.3	1.2	
Vanadium (ppm)	0.0										0.0		0.0	0.0	
Nickel (ppm)	0.0										0.0		0.0	0.0	
Iron (ppm)	1.0										13.3		0.0	0.0	
Sodium (ppm)	1.0												0.0	0.0	
Mercury (ppb)	4.8														
Arsenic (ppb)	10														

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