

Reference: GIPSB24B
Crude: Gippsland Blend



Crude Summary Report

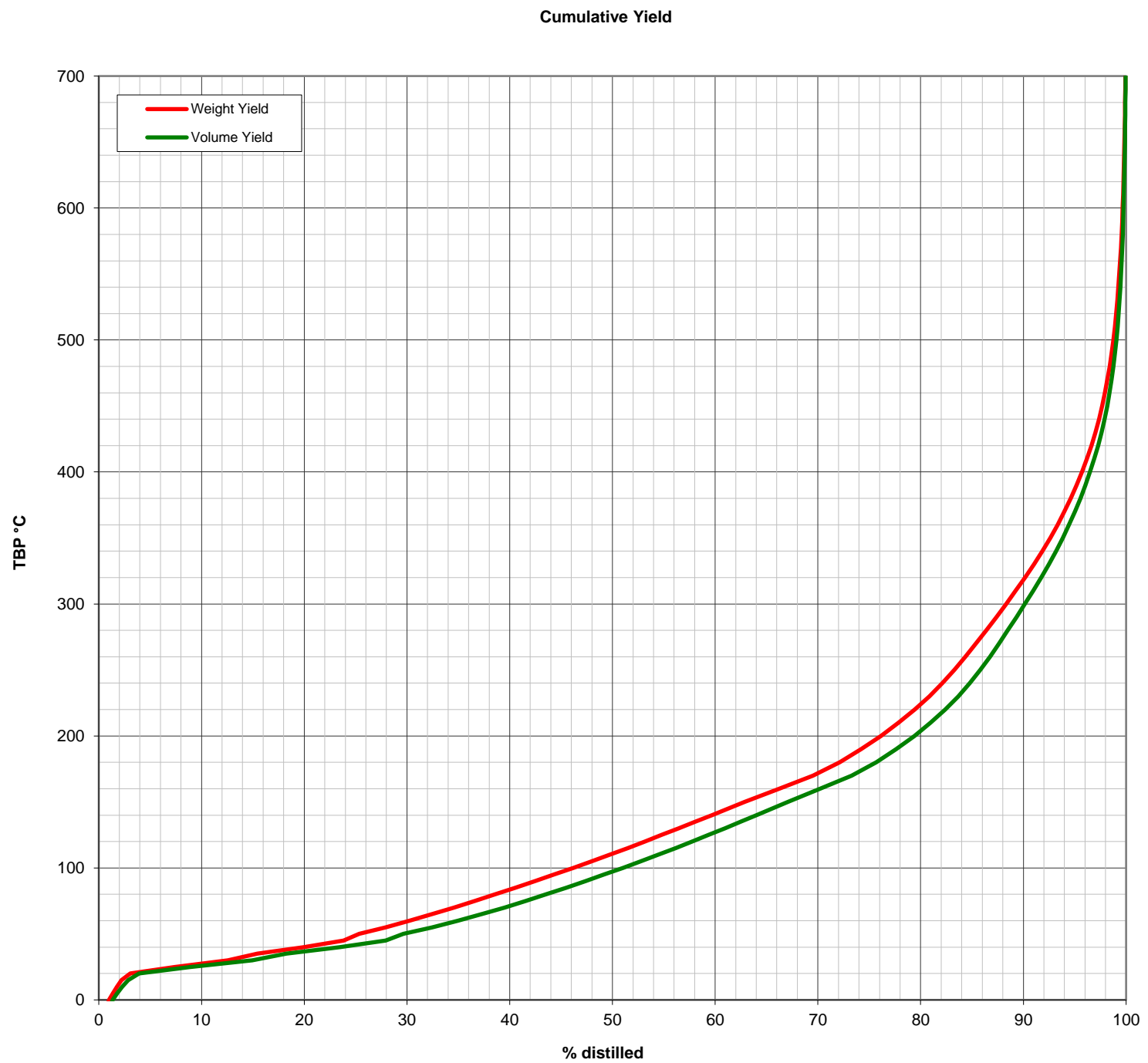
General Information		Molecules (%wt on crude)				Whole Crude Properties			
Reference:	GIPSB24B	methane + ethane	0.00	Density @ 15°C (g/cc)	0.7252				
Name:	Gippsland Blend	propane	0.26	API Gravity	63.6				
Origin:	Bass Strait	isobutane	0.29	Total Sulfur (% wt)	0.03				
Assay Date:	3/15/2024	n-butane	1.58	Pour Point (°C)	-44				
Comments:		isopentane	9.09	Viscosity @ 20°C (cSt)	0.9				
		n-pentane	10.84	Viscosity @ 40°C (cSt)	0.8				
		cyclopentane	0.61	Nickel (ppm)	0.0				
		C6 paraffins	14.34	Vanadium (ppm)	0.0				
		C6 naphthenes	4.67	Total Nitrogen (ppm)	28				
		benzene	0.35	Total Acid Number (mgKOH/g)	0.04				
		C7 paraffins	6.03	Mercaptan Sulfur (ppm)	4.4				
		C7 naphthenes	7.03	Hydrogen Sulfide (ppm)	0.1				
		toluene	1.14	Reid Vapor Pressure (kPa)	67.4				

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)		30.2	13.7	16.7	13.2	7.2	5.0	4.3	1.4	6.0	3.7	1.1	0.6	0.7			
Yield (% vol)		34.4	13.7	16.1	12.3	6.4	4.3	3.7	1.2	5.0	3.1	0.9	0.5	0.5			
Cumulative Yield (% wt)		2.2	32.5	46.2	62.9	76.1	83.3	88.3	92.6	94.0	94.0	97.7	98.8	99.3			
Volume Average B.P. (°C)	130	38.0	82	124	172	223	274	324	360	448	405	472	522	617			
Density @ 15°C (g/cc)	0.7252	0.6366	0.7261	0.7534	0.7793	0.8081	0.8405	0.8463	0.8496	0.8728	0.8463	0.8842	0.9207	0.9773			
API Gravity	63.6	90.8	63.3	56.3	50.0	43.5	36.8	35.6	35.0	30.5	35.6	28.4	22.1	13.2			
UOPK	12.39			11.87	11.91	11.91	11.83	12.10	12.29	12.49	12.62	12.47	12.24	11.97			
Molecular Weight (g/mol)				110	137	171	209	259	301	423	364	465	567	866			
Total Sulfur (% wt)	0.03	0.005	0.009	0.013	0.021	0.046	0.081	0.109	0.108	0.198	0.101	0.188	0.335	0.63			
Mercaptan Sulfur (ppm)	4.4	2.7	3.3	4.6	9.0	7.6	4.2										
Total Nitrogen (ppm)	28					4	6	27	60	413	143	407	756	1623			
Basic Nitrogen (ppm)	12					2	2	12	31	181	79	201	337	574			
Total Acid Number (mgKOH/g)	0.04	0.00	0.00	0.00	0.01	0.02	0.05	0.10	0.14	0.48	0.22	0.42	0.86	1.69			
Viscosity @ 20°C (cSt)	0.92				1.01												
Viscosity @ 40°C (cSt)	0.75				0.80	1.31	2.62	5.11	8.41								
Viscosity @ 50°C (cSt)	0.69					1.16	2.21	4.10	6.46								
Viscosity @ 60°C (cSt)										23.1	11.8	34.7	94.7				
Viscosity @ 100°C (cSt)										16.5	8.88	23.8	59.5				
Viscosity @ 130°C (cSt)										5.95	3.77	7.77	15.0	72.6			
Viscosity @ 150°C (cSt)														26.6			
RON (Clear)		76.9	41.2	66.2	25.5												
MON (Clear)		74.0	59.5	64.7	27.8												
Paraffins (% wt)	63.2	97.9	62.8	29.9	64.1												
Naphthenes (%wt)	25.6	2.1	35.3	57.5	19.2												
Aromatics (% wt)	11.2	0.0	1.9	12.6	16.6												
Pour Point (°C)	-44						-40	-14	14	31	45	52	73	82	49		
Cloud Point (°C)							-38	-12	16								
Freeze Point (°C)							-55	-33	-7								
Smoke Point (mm)						31	23	16									
Cetane Index (D4737A)						41	49	53	67	78							
Naphthalenes (% vol)						0.0	4.0	9.7	11.6								
Aniline Point (°C)				53.6	59.8	64.2	69.9	82.6	93.3		103.4	109.5	107.9				
Hydrogen (% wt)	15.0	16.6	15.4	14.1	14.4	13.6	13.8	13.7	13.8		14.0	13.6	12.7				
Total Wax (% wt)	12.2									63.8	72.8	66.5	51.2	20.3			
C7 Asphaltenes (% wt)	0.0									0.8	0.0	0.0	7.0				
Micro Carbon Residue (% wt)	0.1									1.8	0.6	2.9	13.1				
Vanadium (ppm)	0.0									0.2	0.0	0.0	2.1				
Nickel (ppm)	0.0									0.8	0.0	0.0	7.6				
Iron (ppm)	0.9									1.9	0.0	0.0	17.4				
Sodium (ppm)	0.4																
Mercury (ppb)	1.0																
Arsenic (ppb)	7																

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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				14.9	23.4	29.6	35.0	39.5	43.6	47.4
100	51.0	54.5	57.8	60.9	64.0	67.1	70.2	73.3	75.7	77.6
200	79.4	81.0	82.4	83.7	84.8	85.8	86.7	87.6	88.5	89.3
300	90.1	90.9	91.7	92.5	93.2	93.8	94.4	95.0	95.5	96.0
400	96.5	96.9	97.3	97.6	97.9	98.2	98.4	98.6	98.8	98.9
500	99.0	99.2	99.3	99.4	99.4	99.5	99.6	99.6	99.7	99.7