



Crude **SERIA LIGHT**

Country **Brunei**

TBP
DISTILLATION

Density at 15°C, kg/m ³	829.8	Assay Date	31-Jul-13	°C	wt%	vol%	°C	wt%	vol%
°API	39.0			080	11.10	14.00	460	96.30	96.97
Bbl/mt	7.592			090	13.76	16.99	480	97.54	98.02
Acidity, mg KOH/g	0.21			100	16.82	20.37	500	98.08	98.47
Sulphur, wt%	0.066			120	21.84	25.83	520	98.32	98.67
Hydrogen Sulphide, mg/kg	5			140	25.27	29.49	540	98.49	98.81
Mercaptan Sulphur, mg/kg	6			160	29.15	33.57	560	98.64	98.93
Viscosity, cSt at 10 °C	3.1			180	33.43	37.99	580	98.78	99.05
50 °C	1.6			200	37.82	42.47			
Pour Point, °C	0			220	42.34	46.99			
Total Nitrogen, wt%	0.014			240	47.38	51.92			
Wax, wt%	5.8		wt% vol%	260	53.34	57.66			
Wax Appearance Temperature, °C	-			280	60.27	64.25			
RVP at 37.8 °C, kPa	50	Ethane	0.00 0.01	300	67.48	71.04			
Water, vol%	0.0	Propane	0.17 0.27	320	73.45	76.62			
NaCl, mg/kg	10.9	Iso-Butane	0.28 0.42	340	77.54	80.42			
Nickel, mg/kg	0.3	n-Butane	1.03 1.46	360	80.79	83.40			
Vanadium, mg/kg	0.0			380	84.05	86.34			
Iron, mg/kg	1.6			400	87.46	89.37			
Mercury, µg/kg	-			420	90.91	92.37			
Arsenic, µg/kg	21			440	94.03	95.04			

PROPERTIES OF TBP CUTS

LIGHT NAPHTHA	Cuts	Yield	Yield	Den 15°C	S	RSH	RON	MON			Napht.	Aro.	RVP			
	°C	wt%	vol %	kg/m ³	wt%	mg/kg	clear	clear			vol%	vol%	kPa			
	15-65	6.64	8.42	652	0.0002	3	77.3	78.5			9.3	0.7	-			
	15-80	9.62	11.85	671	0.0003	5	74.8	77.6			17.6	1.8	-			
HEAVY NAPHTHA	Cuts	Yield	Yield	Den 15°C	S	RSH					Napht.	Aro.				
	°C	wt%	vol %	kg/m ³	wt%	mg/kg					vol%	vol%				
	80-150	16.05	17.47	760	0.0019	8					42.7	11.8				
80-175	21.24	22.87	768	0.0033	7					37.4	17.0					
100-150	10.33	11.10	770	0.0025	7					40.8	15.5					
KEROSENE	Cuts	Yield	Yield	Den 15°C	S	RSH	Smoke	Acidity	Cetane	Freez. Pt		Aro.	Visc cSt			Flash
	°C	wt%	vol %	kg/m ³	wt%	mg/kg	Pt mm	mgKOH/g	Index	°C		vol%	50°C			Point
	150-230	17.62	17.90	814	0.015	4	18	0.04	34.8	-47		30.7	1.0			-
	175-230	12.43	12.50	823	0.018	4	17	0.05	35.5	-45		29.4	1.1			-
150-250	23.08	23.20	823	0.019	5	17	0.05	36.0	-45		28.9	1.1			-	
GASOIL	Cuts	Yield	Yield	Den 15°C	S		Anilin		Cetane	Cloud Pt	CFPP	Pour Pt	Visc cSt	Visc cSt	UOPK	Flash
	°C	wt%	vol %	kg/m ³	wt%		Point °C		Index	C	C	C	50°C	100°C		Point
	175-400	55.12	52.50	869	0.075		59		42.1	-9	-13	-17	2.8	1.3	11.5	-
	230-400	42.70	40.00	883	0.091		61		43.5	-6	-8	-9	4.0	1.7	11.5	-
230-375	38.45	36.23	878	0.084		61		43.1	-12	-13	-15	3.4	1.5	11.5	-	
VACUUM DISTILLATE	Cuts	Yield	Yield	Den 15°C	S	Conrad.	Anilin	Ni	Va	Total N	Bas N	Pour Pt	Visc cSt	Visc cSt	UOPK	Asp C7
	°C	wt%	vol %	kg/m ³	wt%	wt%	Point °C	mg/kg	mg/kg	wt%	mg/kg	C	100°C	150°C		wt %
	375-550	15.35	13.28	956	0.16	0.2	70	0	0	0.037	376	36	14.5	4.8	11.3	0.0
	375-565	15.45	13.37	956	0.16	0.2	70	0	0	0.038	379	36	14.8	4.8	11.3	0.0
	375-580	15.56	13.46	957	0.16	0.3	70	0	0	0.039	383	36	15.1	4.9	11.3	0.0
400-580	11.31	9.68	967	0.17	0.4	71	0	0	0.043	446	40	23.2	6.6	11.2	0.0	
RESIDUE	Cuts	Yield	Yield	Den 15°C	S	Conrad.	Acidity	Ni	Va	Total N		Pour Pt	Visc cSt	Visc cSt	Pene	Asp C7
	°C	wt%	vol %	kg/m ³	wt%	wt%	mgKOH/g	mg/kg	mg/kg	wt%		C	100°C	150°C	mm/10	wt%
	> 375	16.78	14.41	964	0.18	1.2	0.5	2	0	0.073		39	24	7	15200	0.1
	> 550	1.44	1.13	1056	0.33	12.0	0.1	22	1	0.465		61	-	-	552	0.8
	> 565	1.33	1.04	1061	0.34	12.6	0.1	23	1	0.488		64	-	-	914	0.8
> 580	1.23	0.95	1066	0.35	13.2	0.0	25	1	0.511		67	-	-	1740	0.9	

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TOTAL DTS / AM

Mar-14