



Crude **FORTIES**  
Country United Kingdom

TBP  
DISTILLATION

Density at 15°C, kg/m3	837.8	Assay Date	24-May-14	°C	wt%	vol%	°C	wt%	vol%
°API	37.3			080	9.7	12.7	460	75.5	79.2
Bbl/mt	7.522			090	11.3	14.6	480	78.0	81.5
Acidity, mg KOH/g	0.06			100	13.0	16.7	500	80.4	83.6
Sulphur, wt%	0.85			120	17.1	21.3	520	82.6	85.5
Hydrogen Sulphide, mg/kg	3			140	21.5	26.2	540	84.6	87.3
Mercaptan Sulphur, mg/kg	18			160	25.6	30.7	560	86.4	88.9
Viscosity, cSt at 10 °C	8.0			180	29.3	34.5	580	88.1	90.3
Viscosity, cSt at 50 °C	3.0			200	32.5	37.9			
Pour Point, °C	-12			220	35.8	41.3			
Total Nitrogen, wt%	0.09			240	39.2	44.7			
Wax, wt%	-			260	42.7	48.2			
Wax Appearance Temperature, °C	-			280	46.3	51.7			
RVP at 37.8 °C, kPa	53			300	49.8	55.2			
Water, vol%	-			320	53.4	58.6			
NaCl, mg/kg	-			340	56.9	61.9			
Nickel, mg/kg	4.4			360	60.3	65.2			
Vanadium, mg/kg	12.6			380	63.6	68.3			
Iron, mg/kg	-			400	66.8	71.3			
Mercury, µg/kg	-			420	69.9	74.1			
				440	72.8	76.7			

PROPERTIES OF TBP CUTS

LIGHT NAPHTHA	Cuts	Yield	Yield	Den 15°C	S	RSH	RON	MON			Napht.	Aro.	RVP			
	°C	wt%	vol %	kg/m3	wt%	mg/kg	clear	clear			vol%	vol%	kPa			
	15-65	5.2	6.7	648	0.00	4	68.9	67.8			8.4	0.5	-			
	15-80	7.3	9.2	659	0.00	7	65.1	64.2			13.6	1.5	-			
HEAVY NAPHTHA	Cuts	Yield	Yield	Den 15°C	S	RSH					Napht.	Aro.				
	°C	wt%	vol %	kg/m3	wt%	mg/kg					vol%	vol%				
	80-150	14.0	15.8	734	0.01	18					31.5	10.8				
80-175	18.7	20.9	744	0.01	18					30.9	11.8					
100-150	10.6	11.8	743	0.01	18					31.4	11.8					
KEROSENE	Cuts	Yield	Yield	Den 15°C	S	RSH	Smoke	Acidity	Cetane	Freez. Pt		Aro.	Visc cSt			Flash
	°C	wt%	vol %	kg/m3	wt%	mg/kg	Pt mm	mgKOH/g	Index	°C		vol%	50°C			Point
	150-230	13.9	14.5	796	0.06	20	25	0.02	41.1	-56		17.6	1.0			55.0
	175-230	9.1	9.4	807	0.08	21	23	0.03	42.0	-50		19.1	1.1			69.0
150-250	17.3	17.9	802	0.09	20	24	0.03	42.7	-51		18.6	1.1			57.9	
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/m3	wt%		Point °C		Index	C	C	C	50°C	100°C		Point
	175-400	38.4	37.6	847	0.52		68		50.0	-3	-7	-11	2.7	1.3	11.8	81.4
	230-400	29.3	28.3	861	0.65		71		53.1	2	0	-2	3.8	1.7	11.8	106.5
230-375	25.3	24.5	855	0.58		70		53.2	-4	-6	-8	3.3	1.5	11.8	104.8	
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/m3	wt%	wt%	Point °C	mg/kg	mg/kg	wt%	mg/kg	C	100°C	150°C		wt %
	375-550	22.8	20.6	918	1.35	0.3	85	0	0	0.12	369	39	8.2	3.2	11.9	0.0
	375-565	24.1	21.7	920	1.38	0.4	86	0	1	0.12	391	40	8.7	3.3	11.9	0.0
	375-580	25.3	22.8	922	1.41	0.6	86	0	1	0.13	413	41	9.3	3.5	11.9	0.1
400-580	21.3	19.1	927	1.47	0.7	88	0	1	0.14	464	44	11.3	4.0	11.9	0.1	
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/m3	wt%	wt%	mgKOH/g	mg/kg	mg/kg	wt%		C	100°C	150°C	mm/10	wt%
	> 375	37.2	32.5	951	1.85	6.2	0.1	12	34	0.25		37	27	7	-	0.5
	> 550	14.5	11.9	1009	2.64	15.5	0.0	30	87	0.45		48	558	58	226	1.3
	> 565	13.1	10.7	1014	2.72	16.8	0.0	33	95	0.47		49	821	75	185	1.4
> 580	11.9	9.7	1020	2.80	18.2	0.0	36	104	0.49		50	1250	98	155	1.6	

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TOTAL DTS / AM

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