



Crude **DUMBARTON**

Country United Kingdom

TBP  
DISTILLATION

Density at 15°C, kg/m3	823.9	Assay Date	23-Jul-15			°C	wt%	vol%	°C	wt%	vol%
°API	40.2				080	9.5	12.3	460	82.1	84.6	
Bbl/mt	7.648				090	11.0	14.0	480	84.4	86.7	
Acidity, mg KOH/g	<0.05				100	12.8	15.9	500	86.5	88.5	
Sulphur, wt%	0.282				120	16.7	20.3	520	88.3	90.2	
Hydrogen Sulphide, mg/kg	0				140	21.3	25.3	540	89.9	91.6	
Mercaptan Sulphur, mg/kg	4				160	26.0	30.3	560	91.3	92.8	
Viscosity, cSt at 10 °C	5.8				180	30.3	34.7	580	92.6	93.9	
50 °C	2.6				200	34.1	38.6				
Pour Point, °C	-36				220	37.9	42.5				
Total Nitrogen, wt%	0.059				240	41.9	46.5				
Wax, wt%	-				260	46.0	50.6				
Wax Appearance Temperature, °C	-				280	50.2	54.7				
RVP at 37.8 °C, kPa	50	Ethane	0.01	0.02	300	54.4	58.8				
Water, vol%	-	Propane	0.37	0.59	320	58.6	62.8				
NaCl, mg/kg	-	Iso-Butane	0.34	0.49	340	62.6	66.6				
Nickel, mg/kg	0.6	n-Butane	1.33	1.86	360	66.5	70.3				
Vanadium, mg/kg	1.2				380	70.1	73.7				
Iron, mg/kg	0.5				400	73.5	76.8				
Mercury, µg/kg	-				420	76.7	79.7				
					440	79.5	82.3				

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	5.6	7.1	649	0.00	0	74.0	73.2			7.1	0.9	-			
	15-80	7.5	9.3	662	0.00	0	71.9	71.1			12.2	2.5	-			
HEAVY NAPHTHA	Cuts	Yield	Yield	Den 15°C	S	RSH					Napht.	Aro.				
	°C	wt%	vol %	kg/m3	wt%	mg/kg					vol%	vol%				
	80-150	14.2	15.6	749	0.00	0					40.3	11.6				
80-175	19.7	21.4	758	0.00	0					39.9	12.8					
100-150	11.0	11.9	756	0.00	0					41.6	12.1					
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	16.1	16.6	797	0.01	1	23	0.01	40.9	-61		18.5	1.0			55.1
	175-230	10.6	10.8	805	0.02	1	23	0.02	42.9	-54		19.7	1.1			69.0
150-250	20.2	20.7	802	0.02	1	23	0.02	42.8	-55		19.1	1.1			58.0	
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	44.3	43.2	843	0.21		70		51.2	-4	-7	-11	2.6	1.3	11.9	81.2
	230-400	33.7	32.3	856	0.27		74		54.6	0	0	-1	3.7	1.6	11.9	106.2
230-375	29.4	28.4	852	0.24		72		54.5	-5	-6	-6	3.3	1.5	11.9	104.6	
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	21.4	19.4	906	0.53	0.2	94	0	0	0.11	269	42	7.3	2.9	12.0	0.0
	375-565	22.4	20.3	907	0.54	0.3	94	0	0	0.12	283	42	7.7	3.1	12.0	0.0
	375-580	23.3	21.1	909	0.55	0.4	95	0	0	0.13	296	43	8.0	3.2	12.1	0.0
400-580	19.0	17.1	914	0.56	0.4	96	0	0	0.14	339	46	9.9	3.7	12.1	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/m3	wt%	wt%	mgKOH/g	mg/kg	mg/kg	wt%		C	100°C	150°C	mm/10	wt%
	> 375	30.7	27.2	930	0.68	4.2	0.0	2	4	0.19		43	16	5	-	0.9
	> 550	9.4	7.8	989	1.04	13.4	0.1	6	13	0.35		53	271	37	246	3.1
	> 565	8.4	6.9	995	1.07	14.7	0.1	7	15	0.36		54	385	46	188	3.4
> 580	7.4	6.1	1001	1.11	16.2	0.1	7	16	0.37		55	566	60	147	3.8	

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