



Crude **DUC**
Country Denmark

TBP
DISTILLATION

Density at 15°C, kg/m3	856.0	Assay Date	03-Jun-15	°C	wt%	vol%	°C	wt%	vol%
°API	33.7			080	6.2	8.4	460	73.4	76.3
Bbl/mt	7.361			090	7.4	9.8	480	76.3	79.0
Acidity, mg KOH/g	0.39			100	8.7	11.4	500	79.0	81.5
Sulphur, wt%	0.26			120	12.4	15.5	520	81.5	83.8
Hydrogen Sulphide, mg/kg	0			140	17.1	20.7	540	83.8	85.9
Mercaptan Sulphur, mg/kg	7			160	21.5	25.5	560	85.9	87.8
Viscosity, cSt at 10 °C	13.1			180	24.7	29.0	580	87.9	89.5
Viscosity, cSt at 50 °C	4.2			200	27.8	32.1			
Pour Point, °C	-39			220	31.1	35.5			
Total Nitrogen, wt%	0.13			240	34.5	39.0			
Wax, wt%	-			260	38.2	42.6			
Wax Appearance Temperature, °C	-			280	42.0	46.4			
RVP at 37.8 °C, kPa	39	Ethane	0.0	0.1	300	46.0	50.3		
Water, vol%	0.0	Propane	0.3	0.5	320	50.2	54.4		
NaCl, mg/kg	38.6	Iso-Butane	0.3	0.5	340	53.8	58.0		
Nickel, mg/kg	3.7	n-Butane	0.8	1.2	360	56.9	60.9		
Vanadium, mg/kg	0.4				380	60.1	64.0		
Iron, mg/kg	0.7				400	63.6	67.2		
Mercury, µg/kg	0.0				420	67.0	70.4		
					440	70.3	73.5		

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	3.5	4.6	647	0.00	2	81.4	79.3			9.6	0.5	-			
	15-80	4.7	6.1	661	0.00	4	80.9	78.4			18.0	1.3	-			
HEAVY NAPHTHA	Cuts	Yield	Yield	Den 15°C	S	RSH					Napht.	Aro.				
	°C	wt%	vol %	kg/m3	wt%	mg/kg					vol%	vol%				
	80-150	13.2	14.8	759	0.01	9					60.5	8.0				
80-175	17.7	19.7	769	0.01	10					59.1	10.2					
100-150	10.7	11.9	767	0.01	9					61.7	8.9					
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	13.4	13.9	819	0.05	12	19	0.04	32.2	-76		20.6	1.1			55.0
	175-230	8.8	9.1	829	0.06	12	18	0.05	33.0	-70		22.5	1.2			69.6
150-250	16.9	17.5	825	0.06	12	19	0.05	34.1	-71		21.4	1.2			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	39.6	39.1	866	0.18		62		44.2	-23	-26	-30	3.0	1.4	11.6	83.1
	230-400	30.8	30.0	877	0.21		65		46.8	-19	-20	-21	4.2	1.7	11.6	106.6
230-375	26.5	26.0	872	0.19		64		46.4	-25	-26	-27	3.6	1.5	11.6	104.9	
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	25.6	23.7	924	0.39	0.2	87	0	0	0.15	610	27	10.7	3.6	11.8	0.0
	375-565	27.1	25.1	925	0.39	0.3	87	0	0	0.16	639	28	11.5	3.8	11.9	0.0
	375-580	28.6	26.3	926	0.40	0.4	88	0	0	0.17	667	29	12.3	4.0	11.9	0.0
400-580	24.3	22.3	930	0.41	0.5	90	0	0	0.18	729	32	15.6	4.8	11.9	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	40.7	36.8	945	0.49	4.4	0.3	9	1	0.30		8	31	8	-	0.1
	> 550	15.1	13.1	983	0.67	11.6	0.1	24	3	0.55		38	517	55	444	0.2
	> 565	13.6	11.7	987	0.69	12.7	0.1	27	3	0.58		40	715	68	342	0.3
> 580	12.1	10.5	991	0.71	13.8	0.0	29	4	0.61		42	1020	86	271	0.3	

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TOTAL DTS / AM

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