

	Crude ASGARD BLEND				TBP DISTILLATION									
	Country Norway													
Density at 15°C, kg/m3	785.8	Assay Date 29-Aug-19			°C	wt%	vol%	°C	wt%	vol%				
°API	48.5				080	18.3	22.4	460	88.4	90.5				
Bbl/mt	8.020				090	22.4	26.8	480	89.9	91.8				
Acidity, mg KOH/g	0.04				100	27.2	31.9	500	91.2	93.0				
Sulphur, wt%	0.18				120	33.9	38.8	520	92.5	94.0				
Hydrogen Sulphide, mg/kg	5				140	40.1	45.1	540	93.6	95.0				
Mercaptan Sulphur, mg/kg	0				160	46.4	51.4	560	94.6	95.8				
Viscosity, cSt at 10 °C	2.0				180	50.9	55.8	580	95.5	96.6				
50 °C	1.1				200	54.4	59.3							
Pour Point, °C	-36				220	58.1	62.9							
Total Nitrogen, wt%	0.03				240	61.8	66.4							
Wax, wt%	-				260	65.4	69.8							
Wax Appearance Temperature, °C	-				280	68.8	73.0							
RVP at 37.8 °C, kPa	76				300	71.9	75.8							
Water, vol%	-				320	74.7	78.4							
NaCl, mg/kg	-				340	77.2	80.6							
Nickel, mg/kg	0.2				360	79.4	82.6							
Vanadium, mg/kg	2.9				380	81.5	84.5							
Iron, mg/kg	-				400	83.4	86.1							
Mercury, µg/kg	-				420	85.1	87.7							
					440	86.8	89.2							

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	9.5	11.5	646	0.00	0	75.9	75.1				3.3	0.0	-		
	15-80	13.8	16.2	664	0.00	0	72.1	71.2				9.6	0.4	-		
HEAVY NAPHTHA	Cuts	Yield	Yield	Den 15°C	S	RSH						Napht.	Aro.			
	°C	wt%	vol %	kg/m3	wt%	mg/kg						vol%	vol%			
	80-150	25.1	26.0	753	0.00	1						35.9	16.2			
	80-175	31.6	32.5	759	0.00	1						35.1	17.2			
	100-150	16.2	16.5	764	0.00	1						35.6	21.4			
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	16.6	16.3	796	0.00	1	22	0.02	39.9	-53		20.5	1.0			53.4
	175-230	10.0	9.8	804	0.01	1	21	0.02	43.4	-47		19.8	1.1			69.0
	150-250	20.3	19.8	801	0.01	1	21	0.02	42.0	-49		20.8	1.0			56.1
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/m3	wt%		Point °C		Index	C	C	C	50°C	100°C		Point
	175-400	33.5	31.2	836	0.15		70		50.5	-13	-16	-19	2.3	1.2	11.9	85.4
	230-400	23.4	21.5	851	0.21		75		54.7	-7	-8	-8	3.5	1.6	11.9	103.5
	230-375	21.0	19.4	847	0.19		73		54.5	-12	-13	-13	3.1	1.4	11.9	102.3
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	13.2	11.4	902	0.56	0.2	94	0	0	0.09	208	37	7.3	2.9	12.1	0.0
	375-565	13.9	12.0	904	0.58	0.3	95	0	1	0.09	222	38	7.7	3.0	12.1	0.0
	375-580	14.6	12.5	907	0.59	0.4	95	0	1	0.10	236	39	8.2	3.1	12.1	0.0
	400-580	12.2	10.4	911	0.62	0.5	96	0	1	0.11	261	41	9.7	3.6	12.1	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	19.0	16.0	929	0.74	4.6	0.0	1	15	0.17		35	16	5	-	1.3
	> 550	5.9	4.6	996	1.15	14.5	0.0	4	48	0.37		16	298	40	2450	4.1
	> 565	5.1	4.0	1004	1.20	16.3	0.0	5	54	0.39		14	464	54	2190	4.7
	> 580	4.5	3.4	1012	1.24	18.2	0.0	5	61	0.41		13	759	75	1980	5.3

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TOTAL DTS / AM

Jul-21