



Crude **JOHAN SVERDRUP**

Country Norway

TBP
DISTILLATION

Density at 15°C, kg/m3	882.8	Assay Date	01-Apr-21			°C	wt%	vol%	°C	wt%	vol%
°API	28.7					080	5.5	8.0	460	63.0	67.1
Bbl/mt	7.137				090	6.6	9.3	480	66.6	70.5	
Acidity, mg KOH/g	0.32				100	7.8	10.7	500	70.1	73.8	
Sulphur, wt%	0.81				120	9.9	13.2	520	73.4	76.9	
Hydrogen Sulphide, mg/kg	0				140	11.9	15.4	540	76.4	79.7	
Mercaptan Sulphur, mg/kg	13				160	14.1	17.9	560	79.1	82.2	
Viscosity, cSt at 10 °C	36.1				180	16.5	20.6	580	81.6	84.4	
50 °C	8.6				200	19.0	23.3				
Pour Point, °C	-9				220	21.7	26.2				
Total Nitrogen, wt%	0.17				240	24.7	29.3				
Wax, wt%	-				260	27.9	32.7				
Wax Appearance Temperature, °C	-				280	31.5	36.3				
RVP at 37.8 °C, kPa	-				300	35.5	40.3				
Water, vol%	-				320	39.6	44.5				
NaCl, mg/kg	-				340	43.7	48.5				
Nickel, mg/kg	3.8				360	47.4	52.1				
Vanadium, mg/kg	12.1				380	50.4	55.0				
Iron, mg/kg	-				400	53.2	57.7				
Mercury, µg/kg	-				420	56.2	60.6				
					440	59.5	63.7				

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	2.4	3.3	643	0.00	0	75.8	75.0			3.7	0.0	-			
	15-80	3.5	4.7	661	0.00	0	71.6	70.6			10.6	0.0	-			
HEAVY NAPHTHA	Cuts	Yield	Yield	Den 15°C	S	RSH					Napht.	Aro.				
	°C	wt%	vol %	kg/m3	wt%	mg/kg					vol%	vol%				
	80-150	7.4	8.7	751	0.00	2					36.9	14.3				
80-175	10.3	12.0	761	0.01	2					36.1	16.9					
100-150	5.2	6.0	762	0.00	2					36.2	19.8					
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	10.2	11.0	810	0.04	3	20	0.03	36.7	-58		23.1	1.0			57.2
	175-230	7.3	7.8	819	0.05	3	19	0.03	37.2	-55		22.8	1.1			69.6
150-250	13.3	14.3	818	0.06	3	19	0.03	37.9	-54		24.0	1.1			60.6	
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	37.3	37.8	868	0.44		60		44.0	-13	-16	-19	3.0	1.4	11.6	84.9
	230-400	30.0	30.0	881	0.54		63		45.6	-11	-11	-11	4.1	1.7	11.6	107.6
230-375	26.5	26.6	877	0.49		61		45.0	-16	-16	-16	3.5	1.5	11.5	106.1	
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	28.1	26.7	929	0.98	0.3	82	0	0	0.16	484	33	10.2	3.5	11.8	0.0
	375-565	30.1	28.5	931	1.00	0.5	82	0	0	0.17	517	33	11.0	3.7	11.8	0.0
	375-580	31.9	30.1	933	1.02	0.6	82	0	1	0.18	549	34	12.0	3.9	11.8	0.1
400-580	28.4	26.7	936	1.05	0.7	83	0	1	0.20	579	36	13.8	4.3	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	50.3	45.7	969	1.34	7.9	0.4	8	24	0.34		33	92	15	-	3.9
	> 550	22.2	19.0	1026	1.79	17.6	0.3	17	54	0.56		53	26500	474	104	8.9
	> 565	20.2	17.2	1033	1.84	19.0	0.2	19	59	0.58		55	71300	859	112	9.8
> 580	18.4	15.6	1040	1.88	20.6	0.2	20	64	0.60		56	210000	1640	132	10.7	

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