TotalEnergies

Crude **OMAN**

Country Oman

TBP DISTILLATION

Density at 15°C, kg/m3	858.7
°API	33.2
Bbl/mt	7.338
Acidity, mg KOH/g	0.58
Sulphur, wt%	1.29
Hydrogen Sulphide, mg/kg	0
Mercaptan Sulphur, mg/kg	114
Viscosity, cSt at 10 °C	31.5
50 °C	8.6
Pour Point, °C	-45
Total Nitrogen, wt%	0.13
Wax, wt%	-
Wax Appearance Temperature, °C	-
RVP at 37.8 °C, kPa	-
Water, vol%	-
NaCl, mg/kg	-
Nickel, mg/kg	11.4
Vanadium, mg/kg	9.6
Iron, mg/kg	0.9
Mercury, µg/kg	-

Assay Date	10-Oct-20
Assay Quality	Good

	wt%	vol%
Ethane	0.0	0.0
Propane	0.2	0.4
Iso-Butane	0.3	0.5
n-Butane	0.8	1.2

°C	wt%	vol%	°C	wt%	vol%
080	5.3	7.3	460	63.2	67.6
090	6.2	8.2	480	66.1	70.3
100	7.2	9.4	500	68.9	73.0
120	9.7	12.4	520	71.7	75.5
140	12.9	16.1	540	74.3	77.9
160	16.4	20.1	560	76.9	80.2
180	19.6	23.7	580	79.3	82.4
200	22.4	26.9			
220	25.2	29.8			
240	28.1	32.9			
260	31.1	36.1			
280	34.2	39.3			
300	37.5	42.6			
320	40.8	46.0			
340	44.1	49.3			
360	47.5	52.6			
380	50.7	55.8			
400	54.0	58.9			
420	57.1	61.9			
440	60.2	64.8			

PROPERTIES OF TBP CUTS

LIGHT NAPHTHA	Cuts °C	Yield wt%	Yield vol %	Den 15°C kg/m3	S wt%	RSH mg/kg	RON clear	MON clear			Napht. vol%	Aro. vol%	RVP kPa			
	15-65	3.1	4.1	645	0.11	993	66.7	70.3			4.2	0.6	-			
	15-80	4.0	5.2	658	0.10	1120	61.3	66.6			8.1	2.0	-			
HEAVY NAPHTHA	Cuts °C	Yield wt%	Yield vol %	Den 15°C kg/m3	S wt%	RSH mg/kg					Napht. vol%	Aro. vol%				
	80-150	9.3	10.9	734	0.06	333					25.8	9.6				
	80-175	13.5	15.6	742	0.07	322					23.4	9.5				
	100-150	7.5	8.7	739	0.06	294					25.4	9.9				
KEROSENE	Cuts °C	Yield wt%	Yield vol %	Den 15°C kg/m3	S wt%	RSH mg/kg	Smoke Pt mm	Acidity mgKOH/g	Cetane Index	Freez. Pt °C		Aro. vol%	Visc cSt 50°C			Flash Point
	150-230	12.0	13.2	778	0.13	213	31	0.03	49.4	-59		10.2	1.0			54.9
	175-230	7.8	8.5	788	0.15	168	30	0.03	50.9	-53		10.6	1.1			68.7
	150-250	14.9	16.3	785	0.15	185	30	0.03	50.4	-55		11.0	1.1			57.7
GASOIL	Cuts °C	Yield wt%	Yield vol %	Den 15°C kg/m3	S wt%		Anilin Point °C		Cetane Index	Cloud Pt C	CFPP C	Pour Pt C	Visc cSt 50°C	Visc cSt 100°C	UOPK	Flash Point
	175-400	35.2	36.0	837	0.60		74		54.7	-12	-15	-18	2.9	1.4	12.0	81.9
	230-400	27.3	27.5	852	0.73		77		57.2	-9	-9	-10	4.1	1.7	12.0	107.4
	230-375	23.3	23.6	846	0.65		75		57.8	-14	-14	-15	3.5	1.6	12.0	105.5
VACUUM DISTILLATE	Cuts °C	Yield wt%	Yield vol %	Den 15°C kg/m3	S wt%	Conrad. wt%	Anilin Point °C	Ni mg/kg	Va mg/kg	Total N wt%	Bas N mg/kg	Pour Pt C	Visc cSt 100°C	Visc cSt 150°C	UOPK	Asp C7 wt %
	375-550	25.7	24.1	915	1.40	0.3	91	0	0	0.09	278	30	9.3	3.5	12.0	0.1
	375-565	27.6	25.8	918	1.44	0.5	91	0	0	0.10	301	31	10.2	3.7	12.0	0.1
	375-580	29.4	27.4	920	1.49	0.7	92	1	1	0.10	325	31	11.3	4.0	12.0	0.1
	400-580	25.3	23.5	924	1.54	0.8	93	1	1	0.11	358	34	14.0	4.7	12.0	0.2
RESIDUE	Cuts °C	Yield wt%	Yield vol %	Den 15°C kg/m3	S wt%	Conrad. wt%	Acidity mgKOH/g	Ni mg/kg	Va mg/kg	Total N wt%		Pour Pt C	Visc cSt 100°C	Visc cSt 150°C	Pene mm/10	Asp C7 wt%
	> 375	50.1	45.0	955	2.22	9.4	0.9	23	19	0.25		13	71	15	-	1.6
	> 550	24.4	20.9	1001	3.09	18.9	0.5	46	39	0.43		55	3600	228	94	3.3
	> 565	22.5	19.2	1006	3.17	20.2	0.4	50	42	0.45		58	5890	321	73	3.5
	> 580	20.7	17.6	1011	3.26	21.6	0.4	54	46	0.47		61	9890	461	59	3.7