



Crude **ES SIDER**

Country Libya

TBP
DISTILLATION

Density at 15°C, kg/m3	843.3	Assay Date	16-Oct-18	°C	wt%	vol%	°C	wt%	vol%
°API	36.2			080	8.3	10.9	460	70.5	74.2
Bbl/mt	7.471			090	9.3	12.1	480	73.3	76.7
Acidity, mg KOH/g	0.16			100	10.4	13.4	500	75.9	79.2
Sulphur, wt%	0.38			120	12.8	16.1	520	78.4	81.4
Hydrogen Sulphide, mg/kg	2			140	15.5	19.1	540	80.7	83.6
Mercaptan Sulphur, mg/kg	79			160	18.8	22.8	560	82.8	85.5
Viscosity, cSt at 10 °C	67.1			180	22.3	26.5	580	84.8	87.3
50 °C	1.5			200	25.5	29.9			
Pour Point, °C	0			220	28.7	33.3			
Total Nitrogen, wt%	0.13			240	32.3	37.0			
Wax, wt%	-			260	36.1	40.9			
Wax Appearance Temperature, °C	-			280	40.1	44.9			
RVP at 37.8 °C, kPa	270			300	44.0	48.8			
Water, vol%	-			320	47.8	52.5			
NaCl, mg/kg	-			340	51.3	56.0			
Nickel, mg/kg	7.1			360	54.8	59.4			
Vanadium, mg/kg	1.9			380	58.1	62.6			
Iron, mg/kg	-			400	61.4	65.6			
Mercury, µg/kg	-			420	64.6	68.6			
				440	67.6	71.4			

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	5.0	6.4	656	0.01	18	69.6	68.1			11.4	0.4	-			
	15-80	6.4	8.1	667	0.01	31	66.3	64.8			17.6	1.0	-			
HEAVY NAPHTHA	Cuts	Yield	Yield	Den 15°C	S	RSH					Napht.	Aro.				
	°C	wt%	vol %	kg/m3	wt%	mg/kg					vol%	vol%				
	80-150	8.8	10.0	745	0.02	94					42.7	5.5				
80-175	13.2	14.7	755	0.03	103					42.1	6.3					
100-150	6.7	7.5	752	0.02	98					42.0	5.8					
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	13.4	14.2	792	0.08	118	28	0.10	43.6	-57		10.7	1.0			55.8
	175-230	9.0	9.5	800	0.10	116	29	0.11	45.2	-51		12.0	1.1			69.0
150-250	17.1	18.0	798	0.10	112	29	0.11	45.5	-50		11.6	1.1			59.1	
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	39.9	40.0	839	0.25		74		53.3	2	-1	-5	2.7	1.3	11.9	82.1
	230-400	30.9	30.6	851	0.30		77		56.7	6	5	4	3.7	1.7	12.0	106.2
230-375	26.8	26.7	845	0.29		76		57.3	1	0	0	3.3	1.5	12.0	104.5	
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	24.4	22.8	903	0.46	0.1	94	0	0	0.09	437	42	7.6	3.1	12.1	0.3
	375-565	26.0	24.2	904	0.47	0.1	95	0	0	0.10	462	43	8.1	3.2	12.1	0.4
	375-580	27.5	25.5	906	0.48	0.2	95	1	0	0.10	489	44	8.7	3.4	12.1	0.4
400-580	23.4	21.6	908	0.50	0.2	97	1	0	0.12	546	46	10.4	3.9	12.2	0.5	
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	42.7	38.2	939	0.68	6.6	0.2	17	4	0.30		39	30	8	-	1.6
	> 550	18.2	15.5	993	0.97	15.4	0.1	39	10	0.59		55	680	71	134	3.4
	> 565	16.7	14.0	999	1.00	16.8	0.1	42	11	0.62		56	1020	93	109	3.6
> 580	15.2	12.7	1006	1.03	18.2	0.1	46	12	0.66		57	1600	125	91	3.8	

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