



Crude **ES SHARARA**

Country **Libya**

TBP
DISTILLATION

Density at 15°C, kg/m3	812.3	Assay Date			27-Nov-20			°C	wt%	vol%	°C	wt%	vol%
°API	42.6							080	8.9	11.4	460	85.6	87.9
Bbl/mt	7.758							090	10.8	13.5	480	87.6	89.6
Acidity, mg KOH/g	0.05							100	13.1	16.2	500	89.3	91.1
Sulphur, wt%	0.08							120	19.0	22.7	520	90.9	92.4
Hydrogen Sulphide, mg/kg	1							140	25.4	29.7	540	92.2	93.6
Mercaptan Sulphur, mg/kg	7							160	30.7	35.3	560	93.4	94.6
Viscosity, cSt at 10 °C	3.8							180	35.1	39.9	580	94.4	95.5
Viscosity, cSt at 50 °C	1.8							200	39.5	44.3			
Pour Point, °C	-60							220	43.8	48.7			
Total Nitrogen, wt%	0.07							240	48.2	53.0			
Wax, wt%	-							260	52.5	57.2			
Wax Appearance Temperature, °C	-							280	56.7	61.2			
RVP at 37.8 °C, kPa	-							300	60.8	65.2			
Water, vol%	-							320	64.7	68.9			
NaCl, mg/kg	-							340	68.5	72.4			
Nickel, mg/kg	0.4							360	72.0	75.6			
Vanadium, mg/kg	1.0							380	75.3	78.6			
Iron, mg/kg	2.6							400	78.3	81.3			
Mercury, µg/kg	-							420	81.0	83.8			
								440	83.4	86.0			

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	5.1	6.4	642	0.00	1	72.2	71.2			5.2	0.0	-			
	15-80	7.1	8.7	655	0.00	1	68.2	67.0			11.1	0.1	-			
HEAVY NAPHTHA	Cuts	Yield	Yield	Den 15°C	S	RSH					Napht.	Aro.				
	°C	wt%	vol %	kg/m3	wt%	mg/kg					vol%	vol%				
	80-150	19.3	21.3	735	0.00	4					42.3	2.3				
80-175	25.1	27.4	743	0.00	4					43.3	3.1					
100-150	15.1	16.5	742	0.00	4					44.2	2.7					
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	17.8	18.2	793	0.01	4	29	0.02	42.9	-57		10.2	1.0			55.4
	175-230	12.0	12.1	803	0.01	4	27	0.03	43.7	-51		12.2	1.2			69.1
150-250	22.1	22.4	800	0.01	4	27	0.03	44.2	-52		11.7	1.1			58.2	
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	44.2	42.5	842	0.06		70		50.2	-11	-15	-19	2.6	1.2	11.8	79.5
	230-400	32.2	30.5	857	0.08		74		53.3	-6	-7	-9	3.8	1.6	11.8	105.1
230-375	28.5	27.0	853	0.07		72		53.3	-11	-12	-13	3.3	1.5	11.8	103.7	
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	18.3	16.2	914	0.19	0.2	89	0	0	0.15	595	33	8.8	3.3	11.9	0.1
	375-565	19.2	16.9	916	0.19	0.3	89	0	0	0.15	617	34	9.3	3.5	11.9	0.1
	375-580	19.9	17.6	917	0.20	0.4	89	0	0	0.16	638	35	9.9	3.6	11.9	0.2
400-580	16.1	14.1	924	0.20	0.4	91	0	0	0.18	721	38	12.6	4.3	11.9	0.2	
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	25.5	22.1	935	0.22	4.7	0.0	2	4	0.24		21	20	6	-	1.1
	> 550	7.2	5.9	992	0.30	16.1	0.0	6	13	0.49		54	522	53	158	3.5
	> 565	6.4	5.2	997	0.30	18.0	0.0	6	15	0.51		56	792	70	121	3.9
> 580	5.6	4.5	1002	0.31	20.0	0.0	7	16	0.53		57	1250	94	96	4.2	

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TOTAL DTS / AM

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