



Crude **AL SHAHEEN**

Country Qatar

TBP  
DISTILLATION

Density at 15°C, kg/m3	881.3	Assay Date	25-Feb-16	°C	wt%	vol%	°C	wt%	vol%
°API	29.0			080	5.4	7.7	460	63.9	68.3
Bbl/mt	7.149			090	6.1	8.6	480	66.8	71.1
Acidity, mg KOH/g	0.13			100	6.9	9.5	500	69.5	73.6
Sulphur, wt%	2.3			120	8.8	11.8	520	72.0	75.9
Hydrogen Sulphide, mg/kg	<1			140	11.0	14.3	540	74.4	78.1
Mercaptan Sulphur, mg/kg	249			160	13.3	17.0	560	76.7	80.2
Viscosity, cSt at 10 °C	36.5			180	15.8	19.8	580	78.8	82.1
50 °C	7.9			200	18.5	22.7			
Pour Point, °C	-21			220	21.4	25.8			
Total Nitrogen, wt%	0.094			240	24.5	29.1			
Wax, wt%	-			260	27.8	32.7			
Wax Appearance Temperature, °C	-			280	31.4	36.4			
RVP at 37.8 °C, kPa	25			300	35.2	40.2			
Water, vol%	-			320	39.1	44.1			
NaCl, mg/kg	-			340	42.9	48.0			
Nickel, mg/kg	8.9			360	46.8	51.8			
Vanadium, mg/kg	28.7			380	50.5	55.5			
Iron, mg/kg	-			400	54.1	59.0			
				420	57.6	62.3			
				440	60.8	65.4			

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	2.8	3.9	642	0.03	77	78.1	76.4			5.2	0.1	-			
	15-80	3.7	5.0	653	0.03	148	75.1	73.2			10.0	0.2	-			
HEAVY NAPHTHA	Cuts	Yield	Yield	Den 15°C	S	RSH					Napht.	Aro.				
	°C	wt%	vol %	kg/m3	wt%	mg/kg					vol%	vol%				
	80-150	6.7	8.0	739	0.07	339					37.0	4.7				
80-175	9.8	11.4	752	0.10	338					35.4	9.9					
100-150	5.2	6.1	747	0.08	328					37.8	6.2					
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	10.8	11.8	802	0.2	367	22	0.13	40.2	-67		17.3	1.0			57.2
	175-230	7.7	8.3	811	0.3	379	22	0.13	40.7	-61		15.3	1.1			69.7
150-250	14.0	15.2	809	0.3	359	22	0.13	41.9	-60		16.3	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	39.0	39.9	857	1.3		66		48.0	-4	-8	-11	3.0	1.4	11.7	84.8
	230-400	31.3	31.6	870	1.6		69		50.1	-1	-2	-3	4.0	1.7	11.7	107.7
230-375	26.7	27.2	864	1.4		68		50.2	-7	-7	-8	3.5	1.6	11.7	105.8	
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	26.0	24.6	928	2.6	0.3	81	0	0	0.06	263	37	8.2	3.3	11.8	0.1
	375-565	27.6	26.1	931	2.7	0.4	81	0	1	0.07	280	38	8.8	3.4	11.8	0.1
	375-580	29.2	27.5	933	2.7	0.5	82	0	1	0.07	296	38	9.4	3.6	11.8	0.1
400-580	24.6	23.1	938	2.8	0.6	83	0	1	0.08	328	41	11.6	4.2	11.8	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	50.4	45.4	975	3.7	9.9	0.1	18	57	0.2		3	51	12	-	4.3
	> 550	24.4	20.8	1031	4.9	20.2	0.1	36	117	0.3		48	1510	127	168	8.7
	> 565	22.8	19.3	1036	5.1	21.4	0.1	39	125	0.3		51	2240	166	125	9.3
> 580	21.2	17.9	1041	5.2	22.8	0.1	41	134	0.3		54	3420	221	97	10.0	

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