



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	Ethane	0.02	0.04	300	35.2	40.2		
Water, vol%	-	Propane	0.35	0.61	320	39.1	44.1		
NaCl, mg/kg	-	Iso-Butane	0.32	0.49	340	42.9	48.0		
Nickel, mg/kg	8.9	n-Butane	1.01	1.52	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	

This crude oil data sheet is for information purposes only. No guaranty is given as to its accuracy or as to any consequences arising from its use.