

				Crude QATAR MARINE								TBP DISTILLATION					
				Country QATAR													
Density at 15 °C, kg/m3 861.6 ° API 32.65 Bbl/mt 7.31 Viscosity, cSt at 10 °C 20.1 Viscosity cst at 50°C 4.5 Pour Point, °C -15.0 Wax content, wt% Wax Appearance Temp °C R V P at 37.8 °C, kPa 38.8 Water %vol BSW %vol NaCl mg/kg Sulphur, wt % 1.85 Mercaptan sulphur, mg/kg 11 Hydrogen sulphide, mg/kg 14 Acidity mg KOH/g 0.70 Nickel, mg/kg 8 Vanadium, mg/kg 22 Nitrogen, wt% 0.0950				Assay 01-Oct-08 Assay Quality Good								°C wt % vol % °C wt % vol % 015 1.83 2.23 075 6.43 8.25 145 15.93 19.50 190 23.18 27.51 230 29.70 34.50 340 48.06 53.16 375 53.19 58.13 460 67.03 71.28 560 82.03 85.08 565 82.78 85.76					
				wt % vol % Ethane 0.00 0.00 Propane 0.16 0.26 Iso-Butane 0.34 0.53 n-Butane 1.33 1.96													
PROPERTIES OF TBP CUTS																	
LIGHT NAPHTHA	Cut °C	Yield wt %	Yield vol %	Dens 15°C kg/m3	S wt %	RSH %wt	RON clear	RON 0,15g/l	MON clear	MON 0,15g/l	Napht %vol	Aro %Vol	RVP kPa			Benz %vol	
	15-65 15-80			667	0.0326		66.3	74.0	65.2	73.0		1.9				1.9	
HEAVY NAPHTHA	Cuts °C	Yield wt %	Yield vol %	Dens 15°C kg/m3	S wt %						Napht %vol	Aro %vol					
	80-150 80-175 100-150	9.63 13.65 6.91	11.34 15.79 8.12	731 745 733	0.0418 0.0581 0.0438						22.4 22.2 22.2	12.0 14.7 14.2					
KEROSENE	Cuts °C	Yield wt %	Yield vol %	Dens 15°C kg/m3	S wt %	RSH mg/kg	Smoke Point	Acid. mg/g	Cetane Calc	Freeze Pt °C	Naphtal. %vol	Aro. %vol	Saybolt Color	Visc cst 50 °C		Flash Point	
	150-230 175-230 150-250	12.96 8.94 16.30	14.11 9.66 17.50	792 797 803	0.148 0.171 0.342		23		43.4 46.7 43.4	-61.0		21.1					
GASOIL	Cuts °C	Yield wt %	Yield vol %	Dens 15°C kg/m3	S wt %		Anilin Pt C	Cetane	Cetane Calc.	Cloud Pt °C	CFPP °C	Pour Pt °C	Visc cst 50 °C	Visc cst 100 °C	KUOP	Flash Point	
	175-400 230-400 230-375	36.50 27.56 23.49	37.16 27.50 23.63	846 864 856	1.132 1.444 1.364				52.4 51.0 51.5	-5 0 -4		-9 -4 -8					
VACUUM DISTILLATE	Cuts °C	Yield wt %	Yield vol %	Dens 15°C kg/m3	S wt %	Conrad wt %	Anilin Pt C	Ni mg/kg	V mg/kg	Total N wt %	Bas N wt %	Pour Pt C	Visco cSt 100 °C	Visc cst 150°C	KUOP	Asp. C7 %wt	
	375-550 375-565 375-580 400-565	27.34 29.59 25.52	25.57 27.63 23.76	921 923 925	2.15 2.18 2.22	0.46				0.0870	0.0321				11.94		
RESIDUE	Cuts °C	Yield wt %	Yield vol %	Dens 15°C kg/m3	S wt %	Conrad wt %	Asp C5 %wt	Ni mg/kg	V mg/kg	Total N wt %	Pene	Pour Pt °C	Visco cSt 100 °C	Visco cSt 150 °C		Asp. C7 wt %	
	> 375 > 550 > 565 > 580	46.81 19.47 17.22	41.87 16.30 14.24	963 1029 1042	2.87 3.88 4.06	24.3		19.0 54.0	51.0 143.0	0.4420		6 50 53	35 2644 4606	8 138 193		10.0	

* estimated value

Total DTS/AM

Mar-09

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