



Crude **GIRASSOL**

Country **Angola**

TBP  
DISTILLATION

Density at 15°C, kg/m3	874.6	Assay Date	09-Feb-15	°C	wt%	vol%	°C	wt%	vol%
°API	30.2			080	3.36	4.61	460	67.80	70.71
Bbl/mt	7.204			090	4.13	5.53	480	71.46	74.18
Acidity, mg KOH/g	0.39			100	5.15	6.72	500	74.89	77.41
Sulphur, wt%	0.343			120	7.76	9.72	520	78.07	80.40
Hydrogen Sulphide, mg/kg	3			140	10.46	12.76	540	80.98	83.12
Mercaptan Sulphur, mg/kg	4			160	12.84	15.38	560	83.63	85.58
Viscosity, cSt at 10 °C	32.4			180	15.25	18.00	580	86.01	87.77
50 °C	8.1			200	17.94	20.86			
Pour Point, °C	-15			220	20.92	24.00			
Total Nitrogen, wt%	0.124			240	24.17	27.38			
Wax, wt%	6.5			260	27.66	30.98			
Wax Appearance Temperature, °C	-			280	31.35	34.76			
RVP at 37.8 °C, kPa	29	Ethane	0.01	0.02	300	35.21	38.69		
Water, vol%	-	Propane	0.11	0.19	320	39.20	42.73		
NaCl, mg/kg	-	Iso-Butane	0.13	0.20	340	43.28	46.84		
Nickel, mg/kg	10.8	n-Butane	0.61	0.90	360	47.43	50.99		
Vanadium, mg/kg	4.3				380	51.62	55.12		
Iron, mg/kg	2.6				400	55.80	59.20		
Mercury, µg/kg	-				420	59.93	63.18		
					440	63.94	67.03		

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	1.75	2.36	646	0.0005	5	78.5	77.0			7.4	0.0	-			
	15-80	2.50	3.28	666	0.0009	7	77.0	74.9			18.3	0.0	-			
HEAVY NAPHTHA	Cuts	Yield	Yield	Den 15°C	S	RSH					Napht.	Aro.				
	°C	wt%	vol %	kg/m3	wt%	mg/kg					vol%	vol%				
	80-150	8.32	9.50	764	0.0097	10					58.1	10.6				
80-175	11.27	12.72	773	0.0168	14					54.9	13.7					
100-150	6.53	7.39	771	0.0116	11					57.4	13.0					
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	10.84	11.56	818	0.064	16	20	0.15	34.1	-64		25.7	1.1			57.7
	175-230	7.89	8.34	825	0.074	13	19	0.17	35.0	-59		26.7	1.2			69.9
150-250	14.21	15.05	823	0.072	13	19	0.18	36.3	-59		25.9	1.2			61.3	
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	41.17	41.88	857	0.194		71		48.6	-10	-14	-17	3.5	1.6	11.7	85.9
	230-400	33.29	33.54	866	0.223		75		52.1	-7	-9	-10	4.9	2.1	11.8	108.2
230-375	28.06	28.43	861	0.201		73		51.8	-13	-15	-17	4.1	1.8	11.8	106.1	
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	31.77	30.29	915	0.44	0.2	94	0	0	0.134	465	36	11.1	4.0	12.0	0.0
	375-565	33.68	32.06	916	0.45	0.3	94	1	0	0.142	494	37	11.9	4.3	12.0	0.0
	375-580	35.44	33.68	918	0.45	0.5	95	1	0	0.150	523	38	12.8	4.5	12.0	0.0
400-580	30.21	28.58	922	0.47	0.5	96	1	0	0.168	580	41	15.7	5.2	12.0	0.0	
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	49.43	45.91	939	0.56	3.6	0.5	22	9	0.242		29	35	9	-	0.5
	> 550	17.66	15.62	986	0.80	9.5	0.2	61	24	0.437		40	1000	99	308	1.3
	> 565	15.75	13.85	992	0.82	10.4	0.1	68	27	0.456		40	1600	136	273	1.4
> 580	13.99	12.23	998	0.84	11.4	0.1	75	30	0.475		40	2660	192	248	1.6	

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TOTAL DTS / AM

Jul-15