



**Crude**

**BONNY LIGHT**

**API**

**34,0**

**Location**

**NIGERIA**

**Sulphur**

**0,16**

CRUDE OIL			YIELDS AND CHARACTERISTICS OF PRODUCTS											TBP Distillation			
			GAS	NAPHTHAS			KEROSENES		GASOILS		V.DIST.	RESIDUES					
TBP Range :			C1-C4	C5-80 [c]	80-160	80-180	160-230	180-230	230-370	370-400	370-530	370+	400+	530+	Cut Point	%m/m Cum	
TBP Yield	%m/m		1,39	4,99	16,84	18,49	11,15	9,50	34,50	5,38	21,32	31,13	25,75	9,81			
TBP Yield	%v/v		2,11	6,26	18,72	20,46	11,54	9,79	33,72	5,03	19,54	27,86	22,84	8,33			
Density @15°C	Kg/l	0,8548	0,5637	0,6810	0,7691	0,7721	0,8259	0,8297	0,8746	0,9141	0,9327	0,9550	0,9640	1,0072	C1	0,00	
API Gravity @ 60°F		34,0													C2	0,00	
Viscosity @ 20°C	mm <sup>2</sup> /s	8,54													C3	0,23	
Viscosity @ 50°C	VBN						6,07	7,32	16,94	26,95	32,13	36,40	38,38	45,69	IC4	0,61	
Sulphur	%m/m	0,16		0,0327	0,0037	0,0049	0,0293	0,0314	0,14	0,23	0,27	0,35	0,38	0,53	NC4	1,39	
Mercaptan Sulphur	ppm	2		2		3		3							IC5	2,21	
Hydrogen Sulphide	%m/m														NC5	3,00	
Acidity	mgKOH/g	0,27					0,06	0,02	0,24	0,76	0,72	0,5957	0,69	0,32	80	6,38	
Paraffins	%v/v			70,3	33,7	34,0									100	11,04	
Naphthenes	%v/v			25,6	50,6	50,1									120	16,47	
Aromatics	%v/v			4,0	15,7	15,9	17,9	17,9							140	19,98	
N+2A				33,7	82,0	82,0									160	23,22	
Smoke Pt.	mm						22	21							180	24,86	
Freezing Pt.	°C						-56	-53							210	29,96	
Cloud Pt.	°C								-8	+27					230	34,37	
Pour Pt.	°C	< -36							-9	+27					250	39,62	
Cetane Index									46,6	52,1			+36	+42	+69	270	45,26
Total Nitrogen	%m/m											0,16	0,28	0,33	0,55	290	50,48
Basic Nitrogen	ppm									492		684	1248	1406	2473	320	58,49
Nickel	ppm	5										< 1 [c]	15	18	47	350	65,06
Vanadium	ppm	0,8										< 2 [c]	2	3	8	370	68,87
P. Value														> 5		400	74,25
Asphaltenes in NC7	%m/m	0,2											0,80	0,95	2,50	530	90,19
R.C.C.	%m/m	1,4										0,3	4,4	5,3	13,2	550	91,99
Penetration @ 25°C	dmm																
UOP K Factor		11,8									11,7	11,6	11,6				

[c] calculated value

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