



**Crude**

**BASRAH LIGHT**

**API**

**30,4**

**Location**

**IRAQ**

**Sulphur**

**2,79**

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		1,47	4,96	11,30	14,52	10,52	7,30	22,72	4,53	21,26	49,03	44,50	27,77		
TBP Yield	%v/v		2,24	6,56	13,35	16,97	11,63	8,01	23,15	4,40	20,03	43,31	38,91	23,28		
Density @15°C	Kg/l	0,8734	0,5734	0,6603	0,7393	0,7474	0,7904	0,7962	0,8569	0,9006	0,9272	0,9888	0,9988	1,0419	C1	0,00
API Gravity @ 60°F		30,4													C2	0,00
Viscosity @ 20°C	mm <sup>2</sup> /s	17,02													C3	0,12
Viscosity @ 50°C	VBN						4,70	4,26	16,15	25,31	30,27	39,87	41,36	47,23	IC4	0,36
Sulphur	%m/m	2,79		0,0054	0,0386	0,0559	0,2000	0,2400	1,78	2,75	2,72	4,43	4,60	5,74	NC4	1,47
Mercaptan Sulphur	ppm	54		78		23		7							IC5	2,22
Hydrogen Sulphide	%m/m														NC5	3,41
Acidity	mgKOH/g	0,19					0,04	0,02	0,26	0,23	0,19				80	6,43
Paraffins	%v/v			90,0	65,5	64,4									100	8,97
Naphthenes	%v/v			8,2	21,7	21,2									120	11,54
Aromatics	%v/v			1,7	12,8	14,5	21,3	21,5							140	14,56
N+2A				11,7	47,3	50,1									160	17,73
Smoke Pt.	mm						24	23							180	20,95
Freezing Pt.	°C						-54	-45							210	25,18
Cloud Pt.	°C								-6	+21					230	28,25
Pour Pt.	°C	< -36							-9	+21					250	31,30
Cetane Index									53,9	60,2					270	34,55
Total Nitrogen	%m/m										0,09	0,23	0,25	0,34	290	37,68
Basic Nitrogen	ppm									185	268	651	698	943	320	42,87
Nickel	ppm	12									< 1 [c]	24	26	42	350	47,85
Vanadium	ppm	38,7									< 2 [c]	79	87	139	370	50,97
P. Value													3,0		400	55,50
Asphaltenes in NC7	%m/m	2,5										5,15	5,70	9,15	530	72,23
R.C.C.	%m/m	6,1									0,7	12,4	13,6	21,3	550	74,81
Penetration @ 25°C	dmm															
UOP K Factor		11,9									11,7	11,4	11,3			

[c] calculated value

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