



**NATIONAL IRANIAN OIL COMPANY(NIOC)  
RESEARCH INSTITUTE OF PETROLEUM INDUSTRY(R.I.P.I)  
CRUDE EVALUATION DEPARTMENT**

***BANDAR ABBAS 380 CST FUEL OIL***

**TABLE 1: GENERAL DATA**

SPECIFICATION	RESULT	TEST METHOD
SPECIFIC GRAVITY @ 15.56 /15.56 °C	0.9785	ASTM D 4052
API	13.11	ASTM D 1298
SULPHUR CONTENT (Total)                      Wt.%	3.45	ASTM D 4294
BASE SEDIMENT & WATER                      Vol.%	0.1	ASTM D 1796
WATER CONTENT                                      Vol.%	<0.05	ASTM D 4006
SALT CONTENT    P.T.B	11	ASTM D 3230
FLASH POINT     ° C	66	ASTM D 93
KINEMATIC VISCOSITY      @ 40 ° C              mm <sup>2</sup> /Sec	899.2	ASTM D 445
"    @ 50 ° C              mm <sup>2</sup> /Sec	377.8	ASTM D 445
POUR POINT     ° C	0	ASTM D 5853
ASH CONTENT     Wt.%	0.04	ASTM D 482
ASPHALTENES     Wt.%	5.4	IP 143
WAX CONTENT     Wt.%	3.3	BP 237
DROP MELTING POINT OF WAX                      ° C	64	IP 133
CARBON RESIDUE CONRADSON                      Wt.%	13.5	ASTM D 189
ACIDITY , TOTAL    mgKOH/gr	0.11	UOP 565
CALORIFIC VALUE    Kcal/Kg	10149	CALCULATED
NICKEL CONTENT    Ppm	68	ASTM D 5863
VANADIUM CONTENT                                      Ppm	202	ASTM D 5863
IRON CONTENT     Ppm	7.5	ASTM D 5863
LEAD CONTENT     Ppm	<1	ASTM D 5863
SODIUM CONTENT    Ppm	25	ASTM D 5863

Sampling date: 30 Shahrivar 1393 (Sep. 21, 2014)  
Report date: 15 Mehr 1393 (7 Oct. 2014)





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T B P DISTILLATION ANALYSIS (ASTM D- 2892 &D- 5236)

**BANDAR ABBAS 380 CST FUEL OIL**

TABLE: 2

SP. GR @15.56/15.56 °C:

0.9785

FRAC. NO	BOILING RANGE OF FRAC.@ 760 mmHg DEG. C	WEIGHT PERCENT	CUTTING RANGE WT%	SP.Gr. @15.56/ 15.56 °C	VOLUME PERCENT	CUTTING RANGE VOL %
1	IBP-225	4.72	4.72	0.7967	5.80	5.80
2	225-250	7.90	12.62	0.8106	9.54	15.34
3	250-275	3.53	16.15	0.8318	4.15	19.49
4	275-300	1.14	17.29	0.8508	1.31	20.80
5	300-325	0.72	18.01	0.8708	0.81	21.61
6	325-350	0.74	18.75	0.8951	0.81	22.42
7	350-385	0.91	19.66	0.9055	0.98	23.40
8	385-425	1.55	21.21	0.9173	1.65	25.05
9	425-450	1.51	22.72	0.9293	1.59	26.64
10	450-475	3.05	25.77	0.9402	3.17	29.81
11	475-500	5.54	31.31	0.9513	5.70	35.51
12	500-530	6.60	37.91	0.9598	6.73	42.24
13	530-565	9.17	47.08	0.9718	9.23	51.47
14	565+	52.92	100.00	1.0670	48.53	100.00