



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

ABADAN STRAIGHT RUN 280 CST FUEL OIL

TABLE 1: GENERAL DATA

SPECIFICATION	RESULT	TEST METHOD
SPECIFIC GRAVITY @ 15.56 /15.56 °C	0.9764	ASTM D 4052
API	13.42	ASTM D 1298
SULPHUR CONTENT (Total) Wt.%	3.19	ASTM D 4294
BASE SEDIMENT & WATER Vol.%	0.05	ASTM D 1796
WATER CONTENT Vol.%	<0.05	ASTM D 4006
SALT CONTENT P.T.B	5	ASTM D 3230
FLASH POINT ° C	83	ASTM D 93
KINEMATIC VISCOSITY @ 40 ° C mm ² /Sec	628.3	ASTM D 445
" " @ 50 ° C mm ² /Sec	273.8	ASTM D 445
POUR POINT ° C	6	ASTM D 5853
ASH CONTENT Wt.%	<0.2	ASTM D 482
ASPHALTENES Wt.%	3.5	IP 143
WAX CONTENT Wt.%	8.6	BP 237
DROP MELTING POINT OF WAX ° C	70	IP 133
CARBON RESIDUE CONRADSON Wt.%	9.6	ASTM D 189
ACIDITY , TOTAL mgKOH/gr	0.22	UOP 565
CALORIFIC VALUE Kcal/Kg	10258	ASTM D 240
NICKEL CONTENT Ppm	23	ASTM D 5863
VANADIUM CONTENT Ppm	112	ASTM D 5863
IRON CONTENT Ppm	<1	ASTM D 5863
LEAD CONTENT Ppm	<1	ASTM D 5863
SODIUM CONTENT Ppm	12.0	ASTM D 5863

Sampling date: 17 Tir 1393 (8 July 2014)
Report date: 5 Mordad 1393 (27 July 2014)



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T B P DISTILLATION ANALYSIS (ASTM D- 2892 &D- 5236)
ABADAN STRAIGHT RUN 280 CST FUEL OIL

TABLE: 2

SP. GR @15.56/15.56 °C:

0.9764

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-250	3.44	3.44	0.7985	4.21	4.21
2	250-275	1.34	4.78	0.8263	1.58	5.79
3	275-300	1.67	6.45	0.8445	1.93	7.72
4	300-325	2.31	8.76	0.8533	2.64	10.36
5	325-350	2.90	11.66	0.8725	3.25	13.61
6	350-385	5.64	17.30	0.8924	6.17	19.78
7	385-425	7.85	25.15	0.9220	8.31	28.09
8	425-450	6.05	31.20	0.9334	6.33	34.42
9	450-475	5.90	37.10	0.9465	6.09	40.51
10	475-500	5.82	42.92	0.9578	5.93	46.44
11	500-530	7.93	50.85	0.9675	8.00	54.44
12	530-565	8.89	59.74	0.9789	8.87	63.31
13	565+	40.26	100.00	1.0715	36.69	100.00