



NATIONAL IRANIAN OIL COMPANY
RESEARCH INSTITUTE OF PETROLEUM INDUSTRY
CRUDE EVALUATION DEPARTMENT

ILAM GAS REFINERY CONDENSATE

TABLE 1: GENERAL DATA

SPECIFICATION	RESULT	TEST METHOD
SPECIFIC GRAVITY @ 15.56 /15.56 °C	0.7177	ASTM D 4052
API	65.7	ASTM D 1298
SULPHUR CONTENT wt.%	0.27	ASTM D 4294
MERCAPTAN CONTENT wt.%	0.12	UOP 163
H ₂ S CONTENT ppm	46.0	UOP 163
WATER CONTENT ppm	110	ASTM D 4928
NITROGEN CONTENT ppm	<10	ASTM D 5762
<i>PONA TEST:</i>		ASTM D 1319
SATURATE CONTENT Vol.%	90.2	
OLEFIN CONTENT Vol.%	2.0	
AROMATIC CONTENT Vol.%	7.8	
KINEMATIC VISCOSITY @ 0 °C mm ² /Sec	0.8825	ASTM D 445
KINEMATIC VISCOSITY @ 10 °C mm ² /Sec	0.7420	ASTM D 445
KINEMATIC VISCOSITY @ 20 °C mm ² /Sec	0.6742	ASTM D 445
POUR POINT °C	< -39	ASTM D 97
R.V.P PSI	9.20	ASTM D 323
COLD FILTER PLUGGING POINT °C	<-32	IP 309
WAX CONTENT wt.%	0.3	BP 237
DROP MELTING POINT OF WAX °C	32.0	IP 133
COPPER CORROSION, 3hrs,@50°C	3b	ASTM D 130
ACIDITY TOTAL mgrKOH/gr	0.02	ASTM D 664
ANILINE POINT °C	58.5	ASTM D 611
MOLECULAR WEIGHT	135	Osmomat
COLOR Saybolt	26.7	ASTM D 156
LEAD ppm	< 1	ASTM D 5863

Sampling Date: 15 Mordad 1393 (6 Aug. 2014)
Report Date: 18 Shahrivar 1393 (9 Sep. 2014)



NATIONAL IRANIAN OIL COMPANY(NIOC) RESEARCH
INSTITUTE OF PETROLEUM INDUSTRY(R.I.P.I)
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T B P DISTILLATION ANALYSIS (ASTM D- 2892 &D- 5236)
ILAM GAS REFINERY CONDENSATE

TABLE: 2

SP. GR @15.56/1						0.7177
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-15	3.95	3.95	0.5859	4.84	4.84
2	15-65	17.92	21.87	0.6417	20.04	24.88
3	65-100	22.78	44.65	0.7017	23.30	48.18
4	100-125	14.23	58.88	0.7365	13.87	62.05
5	125-150	12.38	71.26	0.7575	11.73	73.78
6	150-175	9.27	80.53	0.7567	8.79	82.57
7	175-200	6.97	87.50	0.7816	6.40	88.97
8	200-225	3.90	91.40	0.7927	3.53	92.50
9	225-250	3.30	94.70	0.8045	2.94	95.44
10	250-275	2.15	96.85	0.8168	1.89	97.33
13	275+	3.15	100.00	0.8475	2.67	100.00