



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

KANGAN (SERAF) CONDENSATE

TABLE 1: GENERAL DATA

SPECIFICATION	RESULT	TEST METHOD
SPECIFIC GRAVITY @ 15.56 /15.56 °C	0.7228	ASTM D 4052
API	64.3	ASTM D 1298
SULPHUR CONTENT wt.%	0.03	ASTM D 4294
MERCAPTAN CONTENT ppm	144	UOP 163
H ₂ S CONTENT ppm	<1	UOP 163
WATER CONTENT ppm	104	ASTM D 4928
NITROGEN CONTENT ppm	<10	ASTM D 5762
<i>PONA TEST:</i>		ASTM D 1319
SATURATE CONTENT Vol.%	91.2	
OLEFIN CONTENT Vol.%	0.7	
AROMATIC CONTENT Vol.%	8.170	
KINEMATIC VISCOSITY @ 0 °C mm ² /Sec	0.8897	ASTM D 445
KINEMATIC VISCOSITY @ 10 °C mm ² /Sec	0.7272	ASTM D 445
KINEMATIC VISCOSITY @ 20 °C mm ² /Sec	0.6745	ASTM D 445
POUR POINT °C	< -39	ASTM D 97
R.V.P PSI	7.55	ASTM D 323
COLD FILTER PLUGGING POINT °C	<-32	IP 309
WAX CONTENT wt.%	0.03	BP 237
DROP MELTING POINT OF WAX °C	<1	IP 133
COPPER CORROSION, 3hrs,@50°C	1b	ASTM D 130
ACIDITY TOTAL mgrKOH/gr	<1	ASTM D 664
ANILINE POINT °C	57	ASTM D 611
MOLECULAR WEIGHT	138	Osmomat
COLOR Saybolt	30	ASTM D 156
LEAD ppm	< 1	ASTM D 5863

Sampling Date: 10 Tir 1393 (1 July, 2014)
Report Date: 20 Mordad 1393 (11 Aug. 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)
KANGAN (SERAF) CONDENSATE

TABLE: 2

SP. GR @15.56						0.7228
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	1.76	1.76	0.5790	2.20	2.20
2	15-65	19.99	21.75	0.6462	22.36	24.56
3	65-100	26.95	48.70	0.7167	27.18	51.74
4	100-125	16.41	65.11	0.7445	15.93	67.67
5	125-150	12.66	77.77	0.7677	11.92	79.59
6	150-175	8.93	86.70	0.7747	8.33	87.92
7	175-200	6.24	92.94	0.7826	5.76	93.68
8	200-225	3.26	96.20	0.7947	2.97	96.65
9	225+	3.80	100.00	0.8197	3.35	100.00