



NATIONAL IRANIAN OIL COMPANY (NIOC)
RESEARCH INSTITUTE OF PETROLEUM INDUSTRY (RIPI)
CRUDE OIL AND PETROLEUM PRODUCTS EVALUATION DEPARTMENT

IRANIAN FOROZAN BLEND CRUDE OIL

TABLE 1: CRUDE OIL GENERAL PROPERTIES ANALYSIS

CHARACTERISTICS	UNITS	RESULT	TEST METHOD
Specific Gravity @ 15.56 /15.56 °C	---	0.8670	ASTM D5002
API Gravity	°API	31.7	
Sulfur Content (Total)	wt.%	2.13	ASTM D4294
H ₂ S Content	ppm	51	IP 570
Mercaptan Content	ppm	226	UOP 163
Nitrogen Content (Total)	wt.%	0.16	ASTM D 5762
Water & Sediment	vol.%	< 0.05	ASTM D4007
Water Content	vol.%	< 0.025	ASTM D4006
Salt Content	PTB	8	ASTM D3230
Kinematic Viscosity @ 10 °C	mm ² /s	18.30	ASTM D445
Kinematic Viscosity @ 20 °C	mm ² /s	12.74	
Kinematic Viscosity @ 40 °C	mm ² /s	7.060	
Pour Point (Upper)	°C	-27	ASTM D5853
Reid Vapor Pressure	psi	4.45	ASTM D323
Asphaltene Content	wt.%	2.6	IP 143
Wax Content	wt.%	5.4	BP 237
Drop Melting Point of Wax	°C	56	IP 133
Conradson Carbon Residue	wt.%	5.40	ASTM D189
Total Acid Number	mg KOH/g	0.31	UOP 565
Nickel Content	mg/kg	9	ASTM D5863
Vanadium Content	mg/kg	38	
Iron Content	mg/kg	1	
Lead Content	mg/kg	<1	
Sodium Content	mg/kg	7	
Zinc Content	mg/kg	<1	
Copper Content	mg/kg	<1	

Sampling Date: from 17 Aban 1394 (08 Nov. 2015) to 06 Azar 1394 (27 Nov. 2015)

Report Date: 13 Bahman 1394 (02 Feb. 2016)