



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

IRANIAN LIGHT EXPORT CRUDE OIL

TABLE 1: CRUDE OIL GENERAL PROPERTIES ANALYSIS

CHARACTERISTICS	UNITS	RESULT	TEST METHOD
Specific Gravity @ 15.56 /15.56 °C	---	0.8575	ASTM D5002
API Gravity	°API	33.5	
Sulfur Content (Total)	wt.%	1.45	ASTM D4294
H ₂ S Content	ppm	61	IP 570
Mercaptan Content	ppm	118	UOP 163
Nitrogen Content (Total)	wt.%	0.18	ASTM D 5762
Water & Sediment	vol.%	< 0.05	ASTM D4007
Water Content	vol.%	< 0.025	ASTM D4006
Salt Content	PTB	9	ASTM D3230
Kinematic Viscosity @ 10 °C	mm ² /s	16.51	ASTM D445
Kinematic Viscosity @ 20 °C	mm ² /s	10.78	
Kinematic Viscosity @ 40 °C	mm ² /s	5.735	
Pour Point (Upper)	°C	-9	ASTM D5853
Reid Vapor Pressure	psi	8.15	ASTM D323
Asphaltene Content	wt.%	1.3	IP 143
Wax Content	wt.%	6.2	BP 237
Drop Melting Point of Wax	°C	54	IP 133
Conradson Carbon Residue	wt.%	4.24	ASTM D189
Total Acid Number	mg KOH/g	0.10	UOP 565
Nickel Content	mg/kg	8	ASTM D5863
Vanadium Content	mg/kg	41	
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 19 Aban 1394 (10 Nov. 2015) to 05 Azar 1394 (26 Nov. 2015)

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