



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

**SIRI EXPORT CRUDE OIL**

TABLE 1: CRUDE OIL GENERAL PROPERTIES ANALYSIS

CHARACTERISTICS	UNITS	RESULT	TEST METHOD
Specific Gravity @ 15.56 /15.56 °C	---	0.8592	ASTM D5002
API Gravity	°API	33.19	ASTM D5002
Sulfur Content (Total)	wt.%	1.98	ASTM D4294
H2S Content	ppm	18	IP 570
Mercaptan Content	ppm	25	UOP 163
Nitrogen Content (Total)	wt.%	0.13	ASTM D 5762
Water & Sediment	vol.%	< 0.05	ASTM D4007
Water Content	vol.%	< 0.025	ASTM D4006
Salt Content	PTB	10	ASTM D3230
Kinematic Viscosity @ 10 °C	mm <sup>2</sup> /s	16.40	ASTM D445
Kinematic Viscosity @ 20 °C	mm <sup>2</sup> /s	9.59	
Kinematic Viscosity @ 40 °C	mm <sup>2</sup> /s	5.58	
Pour Point (Upper)	°C	-24	ASTM D5853
Reid Vapor Pressure	psi	9.20	ASTM D323
Asphaltene Content	wt.%	1.5	IP 143
Wax Content	wt.%	5.5	BP 237
Drop Melting Point of Wax	°C	55	IP 133
Conradson Carbon Residue	wt.%	3.81	ASTM D189
Total Acid Number	mg KOH/g	<0.05	UOP 565
Nickel Content	mg/kg	12	ASTM D5863
Vanadium Content	mg/kg	37	
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: 31 Mordad 1394 (22 Aug. 2015)

Report Date: 15 Mehr 1394 (07 Oct. 2015)