



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

KOROOSH CRUDE OIL

TABLE 1: CRUDE OIL GENERAL PROPERTIES ANALYSIS

CHARACTERISTICS	UNITS	RESULT	TEST METHOD
Specific Gravity @ 15.56 /15.56 °C	---	0.9306	ASTM D5002
API Gravity	°API	20.6	
Sulfur Content (Total)	wt.%	3.31	ASTM D4294
H ₂ S Content	ppm	<1	IP 570
Mercaptan Content	ppm	172	UOP 163
Nitrogen Content (Total)	wt.%	0.24	ASTM D 5762
Water & Sediment	vol.%	<0.025	ASTM D4007
Water Content	vol.%	<0.025	ASTM D4006
Salt Content	PTB	5	ASTM D3230
Kinematic Viscosity @ 10 °C	mm ² /s	298.0	ASTM D445
Kinematic Viscosity @ 20 °C	mm ² /s	159.1	
Kinematic Viscosity @ 40 °C	mm ² /s	50.92	
Pour Point (Upper)	°C	-45	ASTM D5853
Reid Vapor Pressure	psi	3.15	ASTM D323
Asphaltene Content	wt.%	1.6	IP 143
Wax Content	wt.%	1.0	BP 237
Drop Melting Point of Wax	°C	60	IP 133
Conradson Carbon Residue	wt.%	7.0	ASTM D189
Total Acid Number	mg KOH/g	0.69	UOP 565
Nickel Content	mg/kg	9	ASTM D5863
Vanadium Content	mg/kg	27	
Iron Content	mg/kg	1	
Lead Content	mg/kg	<1	
Sodium Content	mg/kg	14	
Zinc Content	mg/kg	<1	
Copper Content	mg/kg	<1	

Sampling Date: from to 06 ABAN 1396 (07 Nov. 2017) to 07 ABAN 1396 (08 Nov. 2017)

Report Date: 05 Day 1396 (26 Dec. 2017)