



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	---	0.9340	ASTM D5002
API Gravity	°API	20.0	ASTM D5002
Sulfur Content (Total)	wt.%	3.08	ASTM D4294
H ₂ S Content	ppm	<1	RIPI
Mercaptan Content	ppm	178	UOP 163
Nitrogen Content (Total)	wt.%	0.24	ASTM D4629
Water & Sediment	vol.%	1.05	ASTM D4007
Water Content	vol.%	1.00	ASTM D4006
Salt Content	PTB	75	ASTM D3230
Kinematic Viscosity @ 10 °C	mm ² /s	286.3	ASTM D 445
Kinematic Viscosity @ 20 °C	mm ² /s	147.6	
Kinematic Viscosity @ 40 °C	mm ² /s	51.02	
Pour Point (Upper)	°C	-45	ASTM D5853
Reid Vapor Pressure	psi	3.35	ASTM D323
Asphaltene Content	wt.%	1.0	IP 143
Wax Content	wt.%	1.1	BP 237
Drop Melting Point of Wax	°C	60	IP 133
Conradson Carbon Residue	wt.%	7.1	ASTM D189
Total Acid Number	mg KOH/g	0.90	UOP 565
Nickel Content	mg/kg	10	ASTM D5863
Vanadium Content	mg/kg	31	
Iron Content	mg/kg	3	
Lead Content	mg/kg	<1	
Sodium Content	mg/kg	88	

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