



**SOROOSH CRUDE OIL**

TABLE 1: CRUDE OIL GENERAL PROPERTIES ANALYSIS

CHARACTERISTICS	UNITS	RESULT	TEST METHOD
Specific Gravity @ 15.56 /15.56 °C	---	0.9410	ASTM D5002
API Gravity	°API	18.87	ASTM D5002
Sulfur Content (Total)	wt.%	3.95	ASTM D4294
H <sub>2</sub> S Content	ppm	<1	IP 570
Mercaptan Content	ppm	25	UOP 163
Nitrogen Content (Total)	wt.%	0.19	ASTM D5762
Water & Sediment	vol.%	0.05	ASTM D4007
Water Content	vol.%	0.05	ASTM D4006
Salt Content	PTB	25	ASTM D3230
Kinematic Viscosity @ 10 °C	mm <sup>2</sup> /s	1610.00	ASTM D445
Kinematic Viscosity @ 20 °C	mm <sup>2</sup> /s	607.70	
Kinematic Viscosity @ 40 °C	mm <sup>2</sup> /s	179.70	
Pour Point (Upper)	°C	-27	ASTM D5853
Reid Vapor Pressure	psi	3.50	ASTM D323
Asphaltene Content	wt.%	8.9	IP 143
Wax Content	wt.%	4.1	BP 237
Drop Melting Point of Wax	°C	64	IP 133
Conradson Carbon Residue	wt.%	12.40	ASTM D189
Total Acid Number	mg KOH/g	0.70	UOP 565
Nickel Content	mg/kg	30	ASTM D5863
Vanadium Content	mg/kg	116	
Iron Content	mg/kg	2	
Lead Content	mg/kg	<1	
Sodium Content	mg/kg	13	
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)