

NATIONAL PIER OIL COMPANY
RESEARCH INSTITUTE OF PETROLEUM INDUSTRY
CRUDE OIL AND PETROLEUM PRODUCTS EVALUATION DEPARTMENT

SIRR600 CrudeOil General Data

TABLE 1: CRUDE OIL GENERAL PROPERTIES ANALYSIS

CHARACTERISTICS	UNITS	RESULT	TEST METHOD
Specific Gravity @ 15.56 /15.56 °C	---	0.8604	ASTM D5002
API Gravity	°API	33.0	ASTM D5002
Sulfur Content (Total)	wt.%	1.83	ASTM D4294
H ₂ S Content	ppm	17	IP 570
Mercaptan Content	ppm	18	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	7	ASTM D3230
Kinematic Viscosity @ 10 °C	mm ² /s	13.33	ASTM D445
Kinematic Viscosity @ 20 °C	mm ² /s	8.95	
Kinematic Viscosity @ 40 °C	mm ² /s	5.219	
Pour Point (Upper)	°C	-9	ASTM D5853
Reid Vapor Pressure	psi	9.10	ASTM D323
Asphaltene Content	wt.%	1.2	IP 143
Wax Content	wt.%	3.8	BP 237
Drop Melting Point of Wax	°C	60	IP 133
Conradson Carbon Residue	wt.%	3.80	ASTM D189
Total Acid Number	mg KOH/g	0.05	UOP 565
Nickel Content	mg/kg	9	ASTM D5863
Vanadium Content	mg/kg	33	
Iron Content	mg/kg	<1	
Lead Content	mg/kg	<1	
Sodium Content	mg/kg	13	
Zinc Content	mg/kg	<1	
Copper Content	mg/kg	<1	