



Date: .....

No: .....

Attachment: .....

## Apafeed petrochemical trading LLC

### Heavy Crude Oil

Properties	Unit	Spec 1	Spec 2	Test Method
Sp. Gr. 15.6/15.6 °C		0.875	0.941	ASTM D 5002
API Gravity	°API	30.2	18.87	ASTM D 5002
Sulfur content	%Wt	1.92	3.95	ASTM D 4294
H <sub>2</sub> S Content	ppm	121	<1	IP 570
Mercaptan Content	ppm	185	25	UOP 163
Nitrogen Content	%Wt	0.23	0.19	ASTM D 5762
Water & Sediment	%Vol	< 0.05	0.05	ASTM D 4007
Water Content	%Vol	< 0.025	0.05	ASTM D 4006
Salt Content	PTB	10	25	ASTM D 3230
Kinematic Viscosity @10°C	mm <sup>2</sup> /s	29.07	1610	ASTM D 445
Kinematic Viscosity @20°C	mm <sup>2</sup> /s	18.4	607.7	ASTM D 445
Kinematic Viscosity @40°C	mm <sup>2</sup> /s	9.218	179.7	ASTM D 445
Pour Point	°C	-12	-27	ASTM D 5853
RVP	psi	6.25	3.5	ASTM D 3230
Asphaltene Content	%Wt	3.4	8.9	IP 143
Wax Content	%Wt	5.7	4.1	BP 237
Drop Melting Point of Wax	°C	55	64	IP 133
CCR	%Wt	6.2	12.4	ASTM D 189
Total Acid Number	mgKOH/g	0.15	0.7	UOP 163
Nickel Content	ppm	14	30	ASTM D 5863
Vanadium Content	ppm	73	116	ASTM D 5863
Iron Content	ppm	<1	2	ASTM D 5863
Lead Content	ppm	<1	<1	ASTM D 5863
Sodium Content	ppm	5	13	ASTM D 5863
Zinc Content	ppm	<1	<1	ASTM D 5863
Copper Content	ppm	<1	<1	ASTM D 5863