

Client : Muang Sa Ad Co., Ltd.

17 Soi Ramintra 42 Yaek, Ramintra Rd., Kannayao Area, Bangkok 10230 Thailand

The following merchandise was selected by SGS at time of inspection and identified as:

Sample Description : Fuel Oil
 Sample No. : 2521606
 Sample Condition : Contained in glass bottle and kept at room temperature.

Date Received : 5-Apr-2013 Date Commenced : 9-Apr-2013

Test Items	Method	Results	Units
Aluminium + Silicon	IP 501/05	Less than 15	mg/kg
Ash Content	ASTM D 482-12	Less than 0.001	% wt
Asphaltene	ASTM D6560-12	Less than 0.50	% wt
Calcium (Ca)	IP 501/05	Less than 3	mg/kg
Calculated Carbon Aromaticity Index (CCAI)	Calculation	768	-
Micro Carbon Residue	ASTM D 4530-11	Less than 0.01	% wt
Density at 15 deg C	ASTM D 1298-12b	0.7934	g/cm3
Flash Point	ASTM D 93-12 (Procedure B)	Less than 40.0	degree C
Kinematic Viscosity at 50 degree C	ASTM D 445-12	1.663	mm2/s
Kinematic Viscosity at 100 degree C	ASTM D 445-12	0.9311	mm2/s
Phosphorus (P)	IP 501/05	Less than 1	mg/kg
Pour Point	ASTM D 97-12	+24	degree C
Sodium (Na)	IP 501/05	Less than 1	mg/kg
Total Sediments	ASTM D 4870-09	Less than 0.01	% wt

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Test Items	Method	Results	Units
Vanadium (V)	IP 501/05	Less than 1	mg/kg
Water Content	ASTM D 95-05e1	Less than 0.1	% vol
Zinc (Zn)	IP 501/05	Less than 1	mg/kg
Sulfur Content	ASTM D 4294-10	0.0272	% wt

***** End of Report *****

Signed for and on behalf of
SGS (Thailand) Limited



Thitirat Sookkho
Laboratory Executive

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