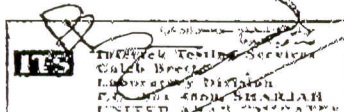


**ITS TESTING SERVICES U.K. LTD.,  
 SHARJAH BRANCH**
**ANALYTICAL TESTS**

Date : 23rd February 2003

**VESSEL** : "BOW LADY" @ ENOC Terminal  
**GRADE** : Ethanol  
**SOURCE** : Shore Tank No. 113 After Receipt on 22/02/03  
**LAB REPORT NO.** : SHJ/92420 E/03

TEST	Method	Units	Limits	RESULTS
Appearance	Visual		Clear & Free from suspended matter	Clear & Free from suspended matter
Ethanol Content (dry basis)	GC	% Vol	99.99 min	99.9
Water Content	ASTM D 1364/95	% wt	0.15 max	0.073
Acidity as CH <sub>3</sub> COOH	ASTM D 1613/91	mg/kg	30 max	18
Carbonyls as acetaldehyde	UOP 624	mg/kg	20 max	<10
Esters as ethyl acetate	BS 6392 part 8	mg/kg	50 max	<10
Methanol	GC	mg/kg	20 max	<5
Higher alcohols as iso butanol	KOMAROWSKI	mg/kg	10 max	<10
Residue on evaporation	ASTM D 1353/92	mg/kg	10 max	<10
Proof Strength (British Standard)	BS 507	% proof	175.2 min	175.3
Density @ 20°C (Vac)	ASTM D 4052/96	kg/L	0.791 max	0.7894
Density @ 20°C (in Air)				0.7883
Distillation @ 101,3 Kpa IBP	ASTM D 1078/93	°C	78.0	78.2
Dry Point		°C	79.0	78.8
Colour	ASTM D 1209/93	Hazen	2.5	<2.5
Water Miscibility	ASTM D 1722/94		Complete	Complete



Ravi P.  
 Laboratory Manager

The above mentioned analysis is carried out by ITS - Caleb Brett Laboratories, unless marked as witnessed (\*\*)

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When analysis is witnessed by us, our responsibility is solely to ensure that the analysis is conducted to standard test methods in accordance with industry accepted practice. We are not responsible for apparatus, instrumentation and measuring devices, their calibration or working order. Reagents and solutions are accepted as prepared.

LABQA  
 SM

QA SHJ 0010 ISSUE NO.: 01 ISSUE DATE : 04/01/00

Attn: MR. SANCIA