

Service update: Off-specification fuel quality report

Applicability: Lloyd's Register FOBAS clients

Information: Between 15th and 31st January 2019 FOBAS identified 91 instances where a result was outside the 95% confidence limit of either ISO 8217 6th edition test parameter or a value given by the BDN or sample label

Port	Characteristic	ISO 8217 Limit or Advised Value	Final result	Unit
Algeciras	Total Sediment Potential	0.10*	0.16	% Mass
Antwerp	Density at 15°C	0.9908**	0.9925	kg/l
Antwerp	Viscosity at 50°C	377.0**	397.3	cSt
Antwerp	Viscosity at 50°C	180.0**	223.5	cSt
Bethioua	Total Sediment Potential	0.10*	0.21	% Mass
Botany Bay	Water	0.50*	0.75	% Volume
Bremen	Vanadium	150*	209	mg/kg
Ceuta	Viscosity at 50°C	180.0**	204.1	cSt
Corpus Christi	Total Sediment Potential	0.10*	0.18	% Mass
Durban	Total Sediment Potential	0.10*	0.15	% Mass
Fujairah	Sulphur	3.48**	3.73	% Mass
Fujairah	Sulphur	3.48**	3.82	% Mass
Fujairah	Sulphur	3.48**	3.68	% Mass
Fujairah	Sulphur	3.48**	3.78	% Mass
Fujairah	Sulphur	3.48**	3.77	% Mass
Fujairah	Sulphur	3.48**	3.72	% Mass
Genova	Density at 15°C	0.9910**	0.9948	kg/l
Genova	Density at 15°C	0.9910**	0.9935	kg/l

Gothenburg	Viscosity at 50°C	378.0**	401.0	cSt
Gothenburg	Viscosity at 50°C	380.0**	400.0	cSt
Haifa	Viscosity at 50°C	180.0**	265.6	cSt
Haifa	Viscosity at 50°C	180.0**	248.5	cSt
Hamburg	Acid Number	0.50*	1.14	mgKOH/g
Huizhou	Flash point	60.0***	58.50	°C
Huizhou	Sulphur	0.10**	0.29	% Mass
Istanbul	Viscosity at 50°C	180.0**	211.1	cSt
Istanbul	Viscosity at 50°C	367.1**	403.0	cSt
Istanbul	Viscosity at 50°C	367.1**	407.8	cSt
Istanbul	Viscosity at 50°C	375.4**	411.2	cSt
Jebel Ali	Water	0.50*	1.10	% Volume
Kingston	Viscosity at 50°C	368.0**	428.3	cSt
Koh Si Chang Transshipment Area	Viscosity at 50°C	362.3**	401.6	cSt
Koh Si Chang Transshipment Area	Viscosity at 50°C	380.0**	398.4	cSt
Laem Chabang	Viscosity at 50°C	362.3**	400.9	cSt
La Libertad	Viscosity at 50°C	380.0**	400.6	cSt
Las Palmas	Viscosity at 50°C	180.0**	209.1	cSt
Liepaja	Viscosity at 50°C	380.0**	485.3	cSt
Lubeck	Sulphur	0.09**	0.18	% Mass
Lubeck	Sulphur	0.09**	0.13	% Mass
Lubeck	Total Sediment Potential	0.10*	0.24	% Mass
Manzanillo	Water	0.50*	2.20	% Volume
Murmansk	Water	0.50*	0.90	% Volume
Nantong	Flash point	60.0***	40.0	°C
New Amsterdam	Water	0.50*	1.00	% Volume
New York	Viscosity at 50°C	441.7**	559.3	cSt
Novorossiysk	Aluminium + Silicon	60*	124	mg/kg
Novorossiysk	Viscosity at 50°C	363.0**	402.0	cSt
Novorossiysk	Water	0.50*	1.00	% Volume

Philadelphia	Density at 15°C	0.9883**	0.9930	kg/l
Philadelphia	Density at 15°C	0.9883**	0.9933	kg/l
Philadelphia	Viscosity at 50°C	358.0**	474.4	cSt
Philadelphia	Viscosity at 50°C	358.0**	468.0	cSt
Pointe a Pierre	Water	0.50*	0.80	% Volume
Pointe a Pierre	Water	0.50*	0.85	% Volume
Pointe a Pierre	Water	0.50*	0.75	% Volume
Pointe Noire	Viscosity at 50°C	179.0**	203.9	cSt
Port Esquivel	Water	0.50*	1.00	% Volume
Port Everglades	Flash point	60.0***	49.50	°C
Rio de Janeiro	Density at 15°C	0.9900**	0.9926	kg/l
Rotterdam	Density at 15°C	0.9908**	0.9920	kg/l
Rotterdam	Viscosity at 50°C	369.0**	401.0	cSt
Rotterdam	Viscosity at 50°C	369.0**	396.7	cSt
Rotterdam	Viscosity at 50°C	369.0**	396.8	cSt
Rotterdam	Viscosity at 50°C	369.0**	401.7	cSt
Rotterdam	Viscosity at 50°C	380.0**	411.6	cSt
Santos	Density at 15°C	0.9900**	0.9924	kg/l
Savannah	Viscosity at 50°C	365.0**	548.7	cSt
Savannah	Viscosity at 50°C	332.0**	637.1	cSt
Singapore	Density at 15°C	0.9908**	0.9939	kg/l
Singapore	Density at 15°C	0.9908**	0.9920	kg/l
Singapore	Density at 15°C	0.9907**	0.9929	kg/l
Singapore	Pour point	0*	6	oC
Singapore	Pour point	0*	9	oC
Singapore	Pour point	0*	6	oC
Singapore	Pour point	0*	6	oC
Singapore	Pour point	0*	9	oC
Singapore	Pour point	0*	6	oC
Singapore	Pour point	0*	9	oC
Singapore	Pour point	0*	6	oC
Singapore	Pour point	0*	9	oC
Singapore	Viscosity at 50°C	179.8**	211.4	cSt
Skagen (Skaw)	Viscosity at 50°C	373.6**	404.5	cSt
St Petersburg	Water	0.50*	1.10	% Volume
Suez	Viscosity at 50°C	380.0**	418.2	cSt

Tenerife	Viscosity at 50°C	380.0**	397.2	cSt
Trinidad & Tobago	Water	0.50*	0.80	% Volume
Tuapse	Viscosity at 50°C	358.4**	407.7	cSt
Tuapse	Viscosity at 50°C	176.3**	196.7	cSt
Valetta	Viscosity at 50°C	180.0**	238.8	cSt
Zeebrugge	Flash point	60.0***	58.5	°C
Zhoushan	Viscosity at 50°C	365.8**	398.7	cSt

*ISO 8217 6th edition limit

**Advised value from BDN or sample label.

***Due to the statutory significance of Flash Point the 95% confidence limit is not applied.

This report contains selected parameters taken from the FOBAS routine analysis data of ship drawn as bunkered samples. These reports will provide progressive snap shot of information every two weeks on the problematic quality characteristics of marine fuels as tested but should not be viewed in isolation. The results given, of course, do not necessarily reflect the overall quality of fuels delivered at a particular port. Note 95% confidence limit as per ISO 4259 Petroleum products: Determination and application of precision data in relation to methods of test

Note: This report has been prepared against ISO 8217 6th edition, as published March 2017. See CIMAC FAQ doc on ISO 8217 for more details (available in our technical library at www.fobas.com).

However, we fully recognise that many of the fuel deliveries covered by this report will have been specified and delivered against earlier versions of ISO 8217 or other specifications and hence will include instances where the fuel 'as bunkered' was fully within the purchaser's required specification. As has always been the case for FOBAS, it is recognised that there is an important distinction between a fuel not meeting, or meeting, a specification requirement and its suitability for use in particular cases.

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Southampton, United Kingdom
Tel: +44 (0)330 414 1000
E fobas@lr.org

Redcar, United Kingdom
Tel: +44 (0)1642 440991
E fobas@lr.org

Singapore
Tel: +65 3163 0888
E fobas@lr.org

Piraeus, Greece
Tel: +30 210 4580 932
E fobas@lr.org