

**Service update:** Off-specification fuel quality report

**Applicability:** Lloyd's Register FOBAS clients

Information: Between 15th and 30th June 2019 FOBAS identified 63 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
Antwerp	Density at 15°C	0.9907**	0.9920	kg/l
Antwerp	Sulphur	0.10**	0.12	% Mass
Antwerp	Viscosity at 50°C	377.0**	397.9	cSt
Balboa	Cetane index	40**	39	Index
Beilun	CCAI	860*	866	Index
Callao	Viscosity at 50°C	341.7**	423.6	cSt
Callao	Viscosity at 50°C	341.7**	444.9	cSt
Callao	Viscosity at 50°C	340.0**	425.5	cSt
Ceuta	Viscosity at 50°C	375.6**	401.5	cSt
Chennai	Aluminium + Silicon	60*	110	mg/kg
Fujairah	Sulphur	3.48**	3.74	% Mass
Fujairah	Sulphur	3.48**	3.73	% Mass
Fujairah	Sulphur	3.48**	3.69	% Mass
Fujairah	Water	Trace*	1.20	% Volume
Ghent (Gent)	Viscosity at 50°C	380.0**	396.8	cSt
Gola	MCR 10% bottom	0.30*	1.15	% Mass
Hamburg	Aluminium + Silicon	60*	81	mg/kg
Hamburg	Viscosity at 50°C	700.0**	783.5	cSt

Istanbul	Viscosity at 50°C	373.3**	493.6	cSt
Istanbul	Viscosity at 50°C	380.0**	400.2	cSt
Kiel	Sulphur	0.09**	0.13	% Mass
Kingston	Sulphur	0.06**	0.15	% Mass
Koh Si Chang Transhipment Area	Viscosity at 50°C	356.1**	428.7	cSt
Laem Chabang	Viscosity at 50°C	449.4**	593.0	cSt
Laem Chabang	Viscosity at 50°C	362.5**	425.6	cSt
Lazaro Cardenas	Ash	0.100*	0.131	% Mass
Lazaro Cardenas	Water	0.50*	2.00	% Volume
Livorno (Leghorn)	Density at 15°C	0.9859**	0.9934	kg/l
Livorno (Leghorn)	Viscosity at 50°C	500.0**	524.9	cSt
Long Beach	Density at 15°C	0.9910**	0.9925	kg/l
Malta - Port Not Stated	Viscosity at 50°C	378.2**	405.1	cSt
Manzanillo	Water	0.50*	0.70	% Volume
Manzanillo	Water	0.50*	0.90	% Volume
Mersin	Viscosity at 50°C	373.6**	404.5	cSt
Mersin	Viscosity at 50°C	373.6**	409.7	cSt
Mersin	Viscosity at 50°C	373.6**	415.6	cSt
New York	Aluminium + Silicon	60*	78	mg/kg
Off Skaw	Total Sediment Potential	0.10*	0.41	% Mass
Off Skaw	Viscosity at 50°C	375.0**	400.1	cSt
Piraeus	Water	0.50*	1.30	% Volume
Port Klang	Viscosity at 50°C	302.7**	413.3	cSt
Ras Tanura	Viscosity at 50°C	178.0**	191.3	cSt
Rodman Naval Station	CCAI	870*	874	Index
Rotterdam	Density at 15°C	0.9909**	0.9944	kg/l
Rotterdam	Viscosity at 40°C	6.00**	6.09	cSt
Rotterdam	Viscosity at 50°C	673.0**	733.4	cSt
San Juan	MCR 10% bottom	0.30*	1.09	% Mass
Singapore	Pour point	0*	6	oC

Singapore	Pour point	0*	6	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	Sulphur	0.09**	0.12	% Mass
Singapore	Sulphur	0.09**	0.14	% Mass
Singapore	Viscosity at 50°C	376.3**	409.6	cSt
Singapore	Viscosity at 50°C	376.3**	401.1	cSt
Singapore	Water	0.50*	0.90	% Volume
Stapleton	Density at 15°C	0.9903**	0.9984	kg/l
Travemunde	Total Sediment Potential	0.10*	0.19	% Mass
Zhoushan	MCR 10% bottom	0.30*	0.37	% Mass

\*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](http://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.

This report contains privileged information intended only for Lloyds Register clients. The information contained in this report should not be disclosed or distributed to third parties without the prior written consent of Lloyd's Register.

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.

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

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

Singapore  
Tel: +65 3163 0888  
E [fobas@lr.org](mailto:fobas@lr.org)

Piraeus, Greece  
Tel: +30 210 4580 932  
E [fobas@lr.org](mailto:fobas@lr.org)