

Service update: Off-specification fuel quality report

Applicability: Lloyd's Register FOBAS clients

Information: Between 15th and 31st July 2019 FOBAS identified 96 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
Abidjan	Sulphur	0.10**	0.21	% Mass
Algiers	Sulphur	0.10**	0.20	% Mass
Amuay bay	Water	0.50*	0.90	% Volume
Antwerp	Viscosity at 40°C	3.50**	6.1	cSt
Antwerp	Viscosity at 40°C	4.90**	6.1	cSt
Antwerp	Viscosity at 40°C	6.00**	6.0	cSt
Antwerp	Viscosity at 40°C	6.00**	6.1	cSt
Antwerp	Viscosity at 40°C	4.90**	6.1	cSt
Antwerp	Viscosity at 50°C	478.0**	552.1	cSt
Antwerp	Water	Trace*	3.20	% Volume
Balboa	Cetane index	40**	39	Index
Balboa	Cetane index	40**	39	Index
Balboa	Cetane index	40**	37	Index
Bolivar Roads (Galveston Texas)	ULO	Detected	Detected	
Brunsbüttel	Total Sediment Potential	0.10*	0.25	% Mass
Brunsbüttel	Water	0.50*	7.00	% Volume
Callao	Viscosity at 50°C	341.7**	489.6	cSt
Ceuta	Viscosity at 50°C	380.0**	400.0	cSt
Constanta	Viscosity at 50°C	350.0**	402.3	cSt

Dammam	Viscosity at 50°C	179.0**	189.0	cSt
Fujairah	Sulphur	3.47**	3.85	% Mass
Fujairah	Sulphur	3.47**	3.90	% Mass
Fujairah	Sulphur	3.47**	3.87	% Mass
Fujairah	Viscosity at 50°C	379.8**	408.1	cSt
Haifa	Viscosity at 50°C	180.0**	189.1	cSt
Hamburg	Viscosity at 50°C	700.0**	758.5	cSt
Huizhou	Flash point	60.0***	57.50	°C
Huizhou	MCR 10% bottom	0.30*	1.20	% Mass
Huizhou	Water	0.50*	1.80	% Volume
Istanbul	Viscosity at 50°C	380.0**	397.2	cSt
Juaymah Crude & LPG Terminals	Viscosity at 50°C	179.0**	209.9	cSt
Kakinada	Sulphur	0.01**	0.13	% Mass
Kavkaz	Total Sediment Potential	0.10*	0.3	% Mass
Kavkaz	Viscosity at 50°C	334.5**	504.2	cSt
Las Palmas	Viscosity at 50°C	180.0**	221.2	cSt
Malta - Port Not Stated	Sulphur	0.10**	0.53	% Mass
Malta - Port Not Stated	Viscosity at 50°C	380.0**	402.2	cSt
Malta - Port Not Stated	Viscosity at 50°C	40.6**	362.3	cSt
Mamonal	Density at 15°C	0.9869**	0.9931	kg/l
Mamonal	Viscosity at 50°C	360.0**	451.6	cSt
Manzanillo	Viscosity at 50°C	380.0**	443.7	cSt
Mersin	Viscosity at 50°C	351.9**	419.3	cSt
Midia	Viscosity at 50°C	300.5**	419.7	cSt
Milford Haven	Viscosity at 50°C	377.7**	399.7	cSt
Murmansk	Viscosity at 50°C	378.0**	433.8	cSt
Not Stated	Water	0.50*	0.65	% Volume
Novorossiysk	Total Sediment Potential	0.10*	0.32	% Mass
Off Skaw	Viscosity at 50°C	378.1**	405.8	cSt

Off Skaw	Viscosity at 50°C	376.0**	399.4	cSt
Off Skaw	Viscosity at 50°C	379.7**	406.5	cSt
Piraeus	MCR 10% bottom	0.30*	3.63	% Mass
Piraeus	Sulphur	0.10**	0.20	% Mass
Port Kelang	Flash point	60.0***	50.50	°C
Port Kelang	Pour point	0*	9	oC
Port Klang	Flash point	60.0***	58.50	°C
Port Of Slavyanka	Water	0.50*	0.85	% Volume
Port Of Spain (Trinidad)	Sulphur	0.04**	0.15	% Mass
Ras Tanura	Viscosity at 50°C	122.0**	198.2	cSt
Rio de Janeiro	Density at 15°C	0.9873**	0.9920	kg/l
Rio de Janeiro	Density at 15°C	0.9873**	0.9920	kg/l
Rio de Janeiro	Sulphur	0.10**	0.13	% Mass
Rotterdam	Viscosity at 40°C	3.50**	6.1	cSt
Rotterdam	Viscosity at 50°C	374.0**	401.3	cSt
Rotterdam	Water	0.50*	0.90	% Volume
Rotterdam	Water	0.50*	1.00	% Volume
Singapore	Aluminium + Silicon	60*	133	mg/kg
Singapore	Ash	0.100*	0.126	% 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*	6	oC
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*	6	oC
Singapore	Pour point	0*	6	oC
Singapore	Pour point	0*	6	oC
Singapore	Sulphur	0.09**	0.15	% Mass
Singapore	Water	0.50*	0.75	% Volume
Skagen (Skaw)	Viscosity at 50°C	378.1**	404.7	cSt
Takoradi	Sulphur	0.10**	0.13	% Mass
Travemunde	Viscosity at 50°C	378.1**	397.0	cSt

Ust Luga	Flash point	60.0***	51.00	°C
Valencia	Viscosity at 50°C	356.0**	428.5	cSt
Valencia	Viscosity at 50°C	356.0**	397.2	cSt
Ventspils	Pour point	30*	39	oC
Vlissingen	Viscosity at 40°C	3.50**	6.07	cSt
Xiamen	Flash point	60.0***	56.50	°C
Xiamen	Sulphur	0.08**	0.17	% Mass
Yabucoa	Viscosity at 50°C	340.0**	406.9	cSt
Yeosu	Ash	0.010*	0.035	% Mass
Yeosu	MCR 10% bottom	0.30*	0.40	% Mass
Zhoushan	Cetane index	40**	38	Index
Zhoushan	Sulphur	0.02**	0.12	% Mass
Zhoushan	Water	0.50*	0.90	% Volume

*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.

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

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