FOBAS

Date: 18 March 2019

Service update: Off-specification fuel quality report

Applicability: Lloyd's Register FOBAS clients

Information: Between 1st and 14th March 2019 FOBAS identified 61 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
Amsterdam	Density at 15°C	0.9910**	0.9923	kg/l
Antwerp	Viscosity at 50°C	377.0**	406.4	cSt
Antwerp	Viscosity at 50°C	691.5**	736.5	cSt
Augusta	Viscosity at 50°C	180.0**	196.0	cSt
Augusta	Water	0.50*	1.30	% Volume
Callao	Viscosity at 50°C	358.9**	453.8	cSt
Callao	Viscosity at 50°C	358.9**	453.9	cSt
Europoort	Viscosity at 50°C	694.6**	745.6	cSt
Genova	Ash	0.100*	0.155	% Mass
Genova	ULO	Detected	Detected	
Gibraltar	MCR 10% bottom	0.30*	0.54	% Mass
Gibraltar	Sulphur	0.10**	0.12	% Mass
Gibraltar	Water	0.50*	0.65	% Volume
Gothenburg	Viscosity at 50°C	180.0**	217.7	cSt
Hamburg	Total Sediment Potential	0.10*	0.19	% Mass
Kaohsiung	Sulphur	0.10**	0.12	% Mass
Kaohsiung	Viscosity at 50°C	180.0**	235.7	cSt
Las Palmas	Aluminium + Silicon	60*	75	mg/kg

Las Palmas	Sulphur	0.08**	0.12	% Mass
Lisbon	Viscosity at 50°C	157.9**	188.1	cSt
Manzanillo	Aluminium + Silicon	60*	129	mg/kg
Manzanillo	Ash	0.100*	0.164	% Mass
Manzanillo	Water	0.50*	4.50	% Volume
Mersin	Total Sediment Potential	0.10*	0.21	% Mass
Newark	Total Sediment Potential	0.10*	0.22	% Mass
Newark	ULO	Detected	Detected	
Novorossiysk	Water	0.50*	0.80	% Volume
Pasir Gudang (Malaysia)	Sulphur	0.08**	0.16	% Mass
Pasir Gudang (Malaysia)	Viscosity at 50°C	180.0**	203.7	cSt
Port Bronka	Viscosity at 50°C	377.0**	397.9	cSt
Rio de Janeiro	Flash point	60.0***	37.00	°C
Rio de Janeiro	Sulphur	0.10**	0.18	% Mass
Rotterdam	Viscosity at 40°C	5.00**	6.1	cSt
Rotterdam	Viscosity at 40°C	4.90**	6.0	cSt
Rotterdam	Viscosity at 40°C	5.00**	6.0	cSt
Rotterdam	Viscosity at 40°C	4.90**	6.0	cSt
Rotterdam	Viscosity at 50°C	691.5**	745.0	cSt
Santos	Density at 15°C	0.9930**	0.9931	kg/l
Singapore	Flash point	60.0***	58.00	°C
Singapore	Flash point	60.0***	55.00	°C
Singapore	Flash point	60.0***	57.50	°C
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	Viscosity at 50°C	307.5**	420.8	cSt
Singapore	Water	0.50*	0.65	% Volume
St Petersburg	Viscosity at 50°C	345.3**	443.7	cSt
Tallinn	Sulphur	0.09**	0.14	% Mass
Tanjung Pelepas	Flash point	60.0***	58.00	°C

Toulon La Seyne	Flash point	60.0***	58.50	°C
Tuapse	Viscosity at 50°C	365.0**	421.2	cSt
Tuapse	Viscosity at 50°C	371.0**	398.7	cSt
Tuapse	Viscosity at 50°C	372.4**	397.8	cSt
Vladivostok	Pour point	6*	12	oC
Vladivostok	Sulphur	0.05**	0.13	% Mass
Vladivostok	Total Sediment Potential	0.10*	0.37	% Mass
Vlissingen	Density at 15°C	0.9910**	0.9934	kg/l
Vlissingen	Sulphur	0.09**	0.12	% Mass
Vlissingen	Viscosity at 50°C	377.0**	409.8	cSt
Vostochnyy	Water	0.50*	0.75	% 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.

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