

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

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

Information: Between 1st and 14th November 2021 FOBAS identified 39 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	0.00**	0.18	% Mass
Aliaga	Flash point	60.0***	59.0	°C
Antwerp	Density at 15°C	0.9910**	0.9920	kg/l
Antwerp	Total Sediment Potential	0.10*	0.16	% Mass
Antwerp	Viscosity at 50°C	80.0**	84.8	cSt
Antwerp	Viscosity at 50°C	80.0**	84.1	cSt
Balboa	Viscosity at 50°C	377.0**	398.2	cSt
Castellon	Flash point	60.0***	59.0	°C
Dubrovnik	Flash point	60.0***	58.5	°C
Fujairah	Water	0.50*	0.70	% Volume
Galveston	Total Sediment Potential	0.10*	0.23	% Mass
Gibraltar	Water	0.50*	1.20	% Volume
Hamburg	Total Sediment Potential	0.10*	0.16	% Mass
Hong Kong	Water	0.50*	0.80	% Volume
Houston	Aluminium + Silicon	60*	90	mg/kg
Kiel	Total Sediment Potential	0.10*	0.18	% Mass

Kingston	Viscosity at 50°C	312.0**	400.6	cSt
Laem Chabang	Viscosity at 50°C	354.6**	408.1	cSt
Liverpool	Total Sediment Potential	0.10*	0.16	% Mass
Livorno (Leghorn)	Water	0.50*	0.75	% Volume
Off Skaw	Viscosity at 50°C	380.0**	404.8	cSt
Phuket	Flash point	60.0***	59.0	°C
Rotterdam	Pour point	0*	6	oC
Rotterdam	Total Sediment Potential	0.10*	0.17	% Mass
Rotterdam	Viscosity at 40°C	4.91**	6.05	cSt
Rotterdam	Viscosity at 40°C	5.80**	6.07	cSt
Rotterdam	Viscosity at 40°C	6.00**	6.05	cSt
St Petersburg	Sulphur	0.08**	0.13	% Mass
Trincomalee	Total Sediment Potential	0.10*	0.26	% Mass
Ulsan	ULO	Detected	Detected	
Visakhapatnam	ULO	Detected	Detected	
Vlissingen	Viscosity at 40°C	3.25**	6.1	cSt
Vlissingen	Water	0.50*	2.30	% Volume
Wilmington (Delaware)	Cetane index	40**	37	Index
Yalikavak	Flash point	60.0***	58.0	°C
Zeebrugge	Density at 15°C	0.9910**	0.9921	kg/l
Zeebrugge	Total Sediment Potential	0.10*	0.18	% Mass
Zeebrugge	Viscosity at 50°C	80.0**	135.9	cSt
Zhoushan	Sulphur	0.03**	0.15	% 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.

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