

Service update: Off-specification fuel quality report

Applicability: Lloyd's Register FOBAS clients

Information: Between 1st and 14th September 2019 FOBAS identified 73 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	Sulphur	0.10**	0.16	% Mass
Antwerp	Density at 15°C	0.9909**	0.9928	kg/l
Antwerp	Flash point	60.0***	58.50	°C
Antwerp	Viscosity at 40°C	3.50**	6.1	cSt
Antwerp	Viscosity at 50°C	698.7**	731.0	cSt
Antwerp	Viscosity at 50°C	367.0**	404.9	cSt
Ashdod	Viscosity at 50°C	329.0**	403.3	cSt
Balboa	Ash	0.100*	0.116	% Mass
Balboa	ULO	ULO	ULO	
Balboa	Water	0.50*	0.80	% Volume
Balboa	Water	0.50*	0.75	% Volume
Baltimore	Density at 15°C	0.9907**	0.9922	kg/l
Botlek	Sulphur	0.09**	0.12	% Mass
Callao	Viscosity at 50°C	356.8**	397.5	cSt
Callao	Viscosity at 50°C	356.8**	408.7	cSt
Callao	Viscosity at 50°C	356.8**	407.2	cSt
Ceuta	Flash point	60.0***	59.00	°C
Dalian	Water	0.50*	2.00	% Volume
Danube - Black Sea Canal	Total Sediment Potential	0.10*	0.30	% Mass

Danube - Black Sea Canal	Viscosity at 50°C	334.5**	546.7	cSt
Durban	Water	0.50*	0.70	% Volume
Durban	Water	0.50*	0.75	% Volume
Freeport Bahamas	Water	0.50*	0.70	% Volume
Fujairah	Viscosity at 50°C	380.0**	399.8	cSt
Fujairah	Water	0.50*	1.50	% Volume
Genova	Carbon residue	18.00*	19.25	% Mass
Genova	Carbon residue	18.00*	19.19	% Mass
Ghent (Gent)	Density at 15°C	0.9910**	0.9929	kg/l
Ghent (Gent)	Viscosity at 50°C	377.0**	403.6	cSt
Hong Kong	Water	0.50*	0.80	% Volume
Houston	Density at 15°C	0.9910**	0.9920	kg/l
Juaymah Crude & LPG Terminals	Viscosity at 50°C	179.9**	189.8	cSt
Kaohsiung	Sulphur	0.07**	0.14	% Mass
Kavkaz	Viscosity at 50°C	327.9**	425.8	cSt
Kingston	Viscosity at 50°C	364.5**	408.7	cSt
Kingston	Viscosity at 50°C	364.5**	413.5	cSt
Kuala Linggi	Ash	0.100*	0.338	% Mass
Kuala Linggi	Ash	0.100*	0.130	% Mass
Kuala Linggi	Density at 15°C	0.9901**	0.9928	kg/l
Kuala Linggi	Flash point	60.0***	49.00	°C
Kuala Linggi	Sodium	100*	418	mg/kg
Kuala Linggi	ULO	Detected	Detected	
Kuala Linggi	Vanadium	350*	488	mg/kg
Kuala Linggi	Viscosity at 50°C	380.0**	887.9	cSt
Lome	Water	0.50*	1.00	% Volume
Malta - Port Not Stated	Viscosity at 50°C	378.6**	397.1	cSt
Malta - Port Not Stated	Viscosity at 50°C	378.6**	400.1	cSt
Marcus hook	Density at 15°C	0.9907**	0.9936	kg/l
Marsden Point	Viscosity at 50°C	363.5**	420.6	cSt
Mumbai	Aluminium + Silicon	60*	74	mg/kg

Ningbo	Flash point	60.0***	58.00	°C
Ningbo	Flash point	60.0***	59.00	°C
Ningbo	Sulphur	0.02**	0.12	% Mass
Panama	Viscosity at 50°C	351.1**	581.1	cSt
Pasir Gudang (Malaysia)	Ash	0.100*	0.211	% Mass
Pasir Gudang (Malaysia)	Flash point	60.0***	56.00	°C
Pasir Gudang (Malaysia)	Sodium	100*	419	mg/kg
Pasir Gudang (Malaysia)	Water	0.50*	4.75	% Volume
Ras Tanura	Viscosity at 50°C	179.6**	188.3	cSt
Rotterdam	Viscosity at 40°C	4.00**	6.0	cSt
Rotterdam	Viscosity at 40°C	4.00**	6.0	cSt
Rotterdam	Viscosity at 50°C	377.0**	409.6	cSt
San Juan	Total Sediment Potential	0.10*	0.27	% 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**	0.15	% Mass
Singapore	Water	0.50*	0.90	% Volume
Stapleton	Density at 15°C	0.9910**	0.9934	kg/l
St Petersburg	Water	0.50*	0.70	% Volume
Tuapse	Viscosity at 50°C	362.5**	397.0	cSt
Tuticorin	Sulphur	0.05**	0.12	% Mass
Vlaardingen	Viscosity at 50°C	380.0**	399.5	cSt
Vlissingen	Sulphur	0.10**	0.12	% Mass
Vlissingen	Viscosity at 50°C	377.0**	417.7	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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