

Service update: Off-specification fuel quality report

Applicability: Lloyd's Register FOBAS clients

Information: Between 15th and 30th November 2019 FOBAS identified 94 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
Agioi Theodoroi	Water	0.50*	1.55	% Volume
Algeciras	Viscosity at 50°C	370.2**	408.5	cSt
Antwerp	Aluminium + Silicon	60*	146	mg/kg
Antwerp	CCAI	860*	865	Index
Antwerp	CCAI	860*	865	Index
Antwerp	Total Sediment Potential	0.10*	0.3	% Mass
Antwerp	Viscosity at 50°C	695.0**	736.6	cSt
Antwerp	Viscosity at 50°C	377.0**	399.1	cSt
Antwerp	Viscosity at 50°C	699.3**	738.4	cSt
Antwerp	Water	0.50*	1.30	% Volume
Ashdod	Viscosity at 50°C	374.0**	411.4	cSt
Ashdod	Viscosity at 50°C	374.0**	422.0	cSt
Ashdod	Water	0.50*	0.69	% Volume
Balboa	Water	0.50*	1.00	% Volume
Balboa	Water	0.50*	1.40	% Volume
Balboa	Water	0.50*	1.20	% Volume
Balboa	Water	0.50*	1.20	% Volume
Barbours Cut	Sulphur	0.08**	0.12	% Mass
Barbours Cut	Sulphur	0.09**	0.13	% Mass
Bremerhaven	Viscosity at 50°C	380.0**	398.3	cSt
Bremerhaven	Viscosity at 50°C	380.0**	400.7	cSt

Colombo	Sulphur	0.09**	0.15	% Mass
Colombo	Sulphur	0.09**	0.14	% Mass
Cristobal	Ash	0.100*	0.113	% Mass
Cristobal	Water	0.50*	0.75	% Volume
Cuxhaven	Water	Trace*	1.25	% Volume
Dammam	Viscosity at 50°C	178.0**	190.2	cSt
Djibouti	Viscosity at 50°C	380.0**	415.4	cSt
Fortaleza	Acid Number	2.50*	4.39	mgKOH/g
Genova	Water	0.50*	0.73	% Volume
Ghent (Gent)	Total Sediment Potential	0.10*	0.42	% Mass
Gothenburg	Viscosity at 50°C	125.0**	203.6	cSt
Houston	MCR 10% bottom	0.30*	0.60	% Mass
Houston	Total Sediment Potential	0.10*	0.25	% Mass
Houston	Water	0.50*	6.00	% Volume
Istanbul	Viscosity at 50°C	364.0**	397.6	cSt
Koh Si Chang Transhipment Area	Viscosity at 50°C	380.0**	402.7	cSt
Limassol	Viscosity at 50°C	374.0**	410.8	cSt
Malta - Port Not Stated	Water	0.50*	0.68	% Volume
Manzanillo	Viscosity at 50°C	380.0**	776.6	cSt
Map Ta Phut	Viscosity at 50°C	354.8**	405.9	cSt
Marcus hook	Viscosity at 50°C	365.0**	453.3	cSt
Mumbai	Aluminium + Silicon	60*	80	mg/kg
Murmansk	Viscosity at 50°C	378.0**	405.4	cSt
Nanjing	Water	0.50*	0.65	% Volume
New Jersey	Sulphur	0.09**	0.24	% Mass
New Jersey	Total Sediment Potential	0.10*	0.26	% Mass
New York	Aluminium + Silicon	60*	75	mg/kg

Ningbo	Water	0.50*	1.20	% Volume
Patrasso	Water	0.50*	0.75	% Volume
Philadelphia	Cetane index	40**	37	Index
Piraeus	Water	0.50*	0.90	% Volume
Port Sudan	Viscosity at 50°C	180.0**	203.4	cSt
Port Sudan	Water	0.50*	0.85	% Volume
Ravenna	Water	0.50*	1.11	% Volume
Rotterdam	Sulphur	0.09**	0.12	% Mass
Rotterdam	Total Sediment Potential	0.10*	0.61	% Mass
Rotterdam	Total Sediment Potential	0.10*	0.56	% Mass
Rotterdam	Total Sediment Potential	0.10*	0.19	% Mass
Rotterdam	Total Sediment Potential	0.10*	0.3	% Mass
Rotterdam	Viscosity at 50°C	377.0**	402.9	cSt
Rotterdam	Viscosity at 50°C	380.0**	399.8	cSt
Rotterdam	Viscosity at 50°C	380.0**	402.7	cSt
Rotterdam	Water	0.50*	0.65	% Volume
San Francisco	Water	0.50*	0.70	% Volume
Santos	Viscosity at 50°C	162.9**	188.0	cSt
Singapore	Aluminium + Silicon	60*	95	mg/kg
Singapore	Aluminium + Silicon	60*	77	mg/kg
Singapore	Aluminium + Silicon	60*	76	mg/kg
Singapore	Aluminium + Silicon	60*	96	mg/kg
Singapore	Aluminium + Silicon	60*	95	mg/kg
Singapore	Pour point	0*	9	oC
Singapore	Pour point	0*	6	oC
Singapore	Pour point	30*	36	oC
Singapore	Pour point	0*	9	oC
Singapore	Pour point	0*	9	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	Pour point	0*	9	oC
Singapore	Total Sediment Potential	0.10*	0.17	% Mass
Singapore	Total Sediment Potential	0.10*	0.16	% Mass
Singapore	Total Sediment Potential	0.10*	0.2	% Mass
Singapore	Total Sediment Potential	0.10*	0.21	% Mass
Singapore	Total Sediment Potential	0.10*	0.17	% Mass
Stapleton	Density at 15°C	0.9903**	0.9920	kg/l

St Petersburg	Density at 15°C	0.9905**	0.9921	kg/l
Taicang	Water	0.50*	0.70	% Volume
Tampa	Flash point	60.0***	59.00	°C
Vancouver	Viscosity at 50°C	374.0**	397.4	cSt
Vancouver	Water	0.50*	0.75	% Volume
Vancouver	Water	0.50*	0.90	% Volume
Vila do conde	Viscosity at 50°C	118.7**	194.2	cSt
Zhenjiang	Water	0.50*	0.65	% Volume
Zhoushan	Viscosity at 50°C	129.4**	271.9	cSt
Zhoushan	Water	0.50*	0.80	% Volume
Zona Comun	Viscosity at 50°C	360.8**	408.3	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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