

Intertek Lintec Fuel Quality Report

PRESIDENT EISENHOWER (9295220)

Busan • 02/04/2021

Sample information has been collated from the vessel's bunker data form and sample bottle label.

Sample No.	DL370734	Grade Ordered	DMA
Client	CMA CGM Asia Shipping Pte. Ltd.	Sulphur Grade	0.10% max
Client Ref	110043	Quantity Supplied	750.0 M.T.
Received by Lab	12/04/2021		
Terminal			

Bunker Information		Sample Seal Information		Courier Information	
Bunker Port	Busan	Seal Condition	Intact	DHL PAD Used	No
Bunker Date	02/04/2021	Analysis Sample	0256523	DHL PAD Comments	
Sample Date	02/04/2021	Supplier Sample	0256522	Courier	
Fuel Supplier	GS Caltex Corp	Vessel Sample	0256520	Airway Bill No.	751244518
Barge	A One	Marpol Sample	0256521		3
Sample Location	Vessel manifold				
Sample Method	Not stated				

	Density (kg/m ³ @15°C)	Viscosity (cSt@40°C)	Sulphur (%mass)
Specification	890.0	2.000 - 6.000	0.10
Supplier BDR	832.0		0.0013
Analysed sample	832.4	3.542	<0.030

Parameter	Result	Units	Spec Limit	Test Variance (±)	Method
Viscosity (40°C)	3.542	cSt@40°C	2.000 - 6.000	0.03400	ISO 3104 (20)
Density	832.4	kg/m ³ @15°C	890.0 max	0.3	ISO 12185 (96)
Cetane Index	54.7		40.0 min		ISO 4264 (18)
Sulphur	<0.030	% mass	0.10 max	0.010	ISO 8754 (03)
Flash Point	68.0	°C	60.0 min		ISO 2719 (16)
Acid Number	<0.20	mg KOH/g	0.50 max	0.10	ASTM D664 (18)
Micro Carbon Residue	<0.01	% mass	0.30 max	0.07	ISO 10370 (14)
Cloud Point	0	°C			ISO 3015 (19)
Pour Point	<-12	°C	0 max	4	ISO 3016 (19)
Appearance	Clear/Bright				VISUAL
Water	<0.05	% vol			ISO 3733 (99)
Ash	<0.001	% mass	0.010 max	0.003	ISO 6245 (01)
Net Specific Energy	42.97	MJ/kg			ISO 8217:A

Sample results are compared with the specification for DMA ISO 8217:2010 for the parameters reported.
ONBOARD FUEL BLENDING IS NOT RECOMMENDED.

Refer to your engine manufacturer's guidelines for max/min alarm settings.

Engineering Notes

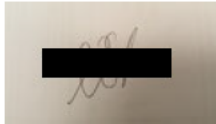
Ultra Low Sulphur (MGO)

Please note: The analysis of the submitted sample has shown the sulphur content to be below 0.05%.

As the sulphur content of a distillate product can have a significant impact on the natural lubricating qualities of the fuel, long term operation of fuel pumps and injectors in conjunction with a fuel of this nature may lead to damage of these components. However, it has been noted that many suppliers are now routinely treating distillate fuels with lubricity additives, and as such it is advisable to contact your supplier for this re-assurance.

-
- Do you have enough sample bottles?
 - If not, please refer to your instruction folder for supply details.
 - Alternatively, contact the Intertek Lintec Logistics Department at lintec.testing@intertek.com or call 0044 1325 390180.
 - Reports can also be viewed online at <https://sentinel.intertek-lintec.com> if you require assistance to access your account, please contact lintec.results@intertek.com
 - Please let us know you have a sample ready for collection and use the Priority Advantage Desk (PAD) by using the web page <https://intertek-lintec.com/>

Signed
Reported By
Report Date



Narinder Singh
13/04/2021

Enterprise House
Valley Street North
Darlington
DL1 1GY
United Kingdom