

GHG and pollutants emission report

Reference : Eol_0A-L4-62-2019-4-X

Carrier : **LOREM**

Year : **2019**

Date : 2022-01-19 17:35:40

Number of operations during the year 2019 : 4

Status : Sample

Trip # 1 (Baltimore - Lisbon)	Date of arrival : 2019-04-21																																																								
Effective trip (ECO) - (502)																																																									
Maritime segment : Baltimore - Lisbon Data : Real <input checked="" type="checkbox"/> Calculated <input type="checkbox"/>																																																									
Distance : 4900 km Load : 18500 t																																																									
Means of transportation : Ro-ro - Lorem Alpha (110) - FR-214587																																																									
<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>Engine</th><th>Tier</th><th>Fuel</th><th>Year</th><th>Speed</th><th>Pwr</th><th>S</th><th>Cons</th><th>ef</th><th>ef</th><th>BSFC</th><th>EF</th><th>EF</th><th>EF</th> </tr> <tr> <td>Unit</td><td></td><td></td><td></td><td>rpm</td><td>kW</td><td>%</td><td>t</td><td>NOx</td><td>PM</td><td></td><td>GHG</td><td>NOx</td><td>PM</td> </tr> </thead> <tbody> <tr> <td>PROP 1</td><td>3</td><td>MDO</td><td>2015</td><td>SSD</td><td>8000</td><td>0.05</td><td>655.23</td><td>-</td><td>-</td><td>-</td><td>3247 (a)</td><td>1.3 (b)</td><td>0.94</td> </tr> <tr> <td>AUX 2</td><td>2</td><td>MGO</td><td>2018</td><td>MSD</td><td>850</td><td>0.03</td><td>64.21</td><td>1.300</td><td>0.030</td><td>225.0 (a)</td><td>3247 (a)</td><td>5.8</td><td>0.13</td> </tr> </tbody> </table>		Engine	Tier	Fuel	Year	Speed	Pwr	S	Cons	ef	ef	BSFC	EF	EF	EF	Unit				rpm	kW	%	t	NOx	PM		GHG	NOx	PM	PROP 1	3	MDO	2015	SSD	8000	0.05	655.23	-	-	-	3247 (a)	1.3 (b)	0.94	AUX 2	2	MGO	2018	MSD	850	0.03	64.21	1.300	0.030	225.0 (a)	3247 (a)	5.8	0.13
Engine	Tier	Fuel	Year	Speed	Pwr	S	Cons	ef	ef	BSFC	EF	EF	EF																																												
Unit				rpm	kW	%	t	NOx	PM		GHG	NOx	PM																																												
PROP 1	3	MDO	2015	SSD	8000	0.05	655.23	-	-	-	3247 (a)	1.3 (b)	0.94																																												
AUX 2	2	MGO	2018	MSD	850	0.03	64.21	1.300	0.030	225.0 (a)	3247 (a)	5.8	0.13																																												
Sources : (a) : IMO / Green Marine (b) : manufacturer (c) : field measurements BSFC and ef in g/kWh EF in kg/t																																																									
<p>GHG : CO₂eq Emissions = 2 336,02 t EEOI = 25.77 g GHG / t.km</p> <p>Pollutant : NOx Emissions = 1,22 t</p> <p>Pollutant : SOx Emissions = 0,694 t</p> <p>Pollutant : PM10 Emissions = 0,627 t</p>																																																									

Trip # 2 (Lisbon - Baltimore)	Date of arrival : 2019-06-10																																																								
Effective trip (ECO) - (504)																																																									
Maritime segment : Lisbon - Baltimore Data : Real <input checked="" type="checkbox"/> Calculated <input type="checkbox"/>																																																									
Distance : 4900 km Load : 21453 t																																																									
Means of transportation : Ro-ro - Lorem Alpha (110) - FR-214587																																																									
<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>Engine</th><th>Tier</th><th>Fuel</th><th>Year</th><th>Speed</th><th>Pwr</th><th>S</th><th>Cons</th><th>ef</th><th>ef</th><th>BSFC</th><th>EF</th><th>EF</th><th>EF</th> </tr> <tr> <td>Unit</td><td></td><td></td><td></td><td>rpm</td><td>kW</td><td>%</td><td>t</td><td>NOx</td><td>PM</td><td></td><td>GHG</td><td>NOx</td><td>PM</td> </tr> </thead> <tbody> <tr> <td>PROP 1</td><td>3</td><td>MDO</td><td>2015</td><td>SSD</td><td>8000</td><td>0.05</td><td>685.24</td><td>-</td><td>-</td><td>-</td><td>3247 (a)</td><td>1.3 (b)</td><td>0.94</td> </tr> <tr> <td>AUX 2</td><td>2</td><td>MGO</td><td>2018</td><td>MSD</td><td>850</td><td>0.03</td><td>46.24</td><td>1.300</td><td>0.030</td><td>225.0 (a)</td><td>3247 (a)</td><td>5.8</td><td>0.13</td> </tr> </tbody> </table>		Engine	Tier	Fuel	Year	Speed	Pwr	S	Cons	ef	ef	BSFC	EF	EF	EF	Unit				rpm	kW	%	t	NOx	PM		GHG	NOx	PM	PROP 1	3	MDO	2015	SSD	8000	0.05	685.24	-	-	-	3247 (a)	1.3 (b)	0.94	AUX 2	2	MGO	2018	MSD	850	0.03	46.24	1.300	0.030	225.0 (a)	3247 (a)	5.8	0.13
Engine	Tier	Fuel	Year	Speed	Pwr	S	Cons	ef	ef	BSFC	EF	EF	EF																																												
Unit				rpm	kW	%	t	NOx	PM		GHG	NOx	PM																																												
PROP 1	3	MDO	2015	SSD	8000	0.05	685.24	-	-	-	3247 (a)	1.3 (b)	0.94																																												
AUX 2	2	MGO	2018	MSD	850	0.03	46.24	1.300	0.030	225.0 (a)	3247 (a)	5.8	0.13																																												
Sources : (a) : IMO / Green Marine (b) : manufacturer (c) : field measurements BSFC and ef in g/kWh EF in kg/t																																																									
<p>GHG : CO₂eq Emissions = 2 375,12 t EEOI = 22.59 g GHG / t.km</p> <p>Pollutant : NOx Emissions = 1,16 t</p> <p>Pollutant : SOx Emissions = 0,713 t</p> <p>Pollutant : PM10 Emissions = 0,653 t</p>																																																									

GHG and pollutants emission report

Trip # 3 (New York - Rotterdam)

Date of arrival : 2019-07-03

Effective trip (ECO) - (506)

Maritime segment : **New York - Rotterdam**

Data : Real Calculated

Distance : 5900 km | Load : 13685 t

Means of transportation : Lorem Beta En - Lorem Beta (111)

Engine	Tier	Fuel	Year	Speed	Pwr	S	Cons	ef	ef	BSFC	EF	EF	EF
Unit				rpm	kW	%	t	NOx	PM		GHG	NOx	PM
PROP 1	3	MDO	2015	SSD	7000	0.05	256.84	-	-	-	3247 (a)	1.4 (b)	0.94
AUX 2	2	MGO	2018	MSD	750	0.02	29.32	1.300	0.030	225.0 (a)	3247 (a)	5.8	0.13

Sources : (a) : IMO / Green Marine (b) : manufacturer (c) : field measurements | BSFC and ef in g/kWh | EF in kg/t

GHG : **CO₂eq** | Emissions = **929,16 t** | EEOI = 11.51 g GHG / t.km

Pollutant : **NOx** | Emissions = **0,529 t**

Pollutant : **SOx** | Emissions = **0,269 t**

Pollutant : **PM10** | Emissions = **0,246 t**

Trip # 4 (Rotterdam - New York)

Date of arrival : 2019-07-21

Effective trip (ECO) - (508)

Maritime segment : **Rotterdam - New York**

Data : Real Calculated

Distance : 5900 km | Load : 16874 t

Means of transportation : Lorem Beta En - Lorem Beta (111)

Engine	Tier	Fuel	Year	Speed	Pwr	S	Cons	ef	ef	BSFC	EF	EF	EF
Unit				rpm	kW	%	t	NOx	PM		GHG	NOx	PM
PROP 1	3	MDO	2015	SSD	7000	0.05	347.62	-	-	-	3247 (a)	1.4 (b)	0.94
AUX 2	2	MGO	2018	MSD	750	0.02	31.36	1.300	0.030	225.0 (a)	3247 (a)	5.8	0.13

Sources : (a) : IMO / Green Marine (b) : manufacturer (c) : field measurements | BSFC and ef in g/kWh | EF in kg/t

GHG : **CO₂eq** | Emissions = **1 230,55 t** | EEOI = 12.36 g GHG / t.km

Pollutant : **NOx** | Emissions = **0,668 t**

Pollutant : **SOx** | Emissions = **0,360 t**

Pollutant : **PM10** | Emissions = **0,332 t**

Global summary

Total emissions ECO

GHG : **CO₂eq** : Emissions = **6 870,85 t**

Pollutant : **NOx** : Emissions = **3,58 t**

Pollutant : **SOx** : Emissions = **2,04 t**

Pollutant : **PM10** : Emissions = **1,86 t**