

# Avoidance report

Reference : Eol\_0A-M4-62-2019-4-X

Carrier : **LOREM**

Year : **2019**

Date : 2022-01-19 17:36:14

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  Calculated

Distance : 4900 km | Load : 18500 t

Means of transportation : Ro-ro - Lorem Alpha (110) - FR-214587

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

GHG : **CO<sub>2</sub>eq** | Emissions = **2 336,02 t** | EEOI = 25.77 g GHG / t.km

Pollutant : **NOx** | Emissions = **1,22 t**

Pollutant : **SOx** | Emissions = **0,694 t**

Pollutant : **PM10** | Emissions = **0,627 t**

Equivalent trip (REF) - (503)

Maritime segment : **Baltimore - Lisbon**

Data : Real  Calculated

Distance : 4900 km | Load : 18500 t

Means of transportation : Roro 9999 t - (3)

GHG : **CO<sub>2</sub>eq** | Coef = 38,06 g CO<sub>2</sub>eq / t.km | Emissions = **3 450,14 t**

Pollutant : **NOx** | Emissions = **Data unavailable**

Pollutant : **SOx** | Emissions = **Data unavailable**

Pollutant : **PM10** | Emissions = **Data unavailable**

# Avoidance report

Trip # 2 (Lisbon - Baltimore)

Date of arrival : 2019-06-10

Effective trip (ECO) - (504)

Maritime segment : **Lisbon - Baltimore**

Data : Real  Calculated

Distance : 4900 km | Load : 21453 t

Means of transportation : Ro-ro - Lorem Alpha (110) - FR-214587

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

GHG : **CO<sub>2</sub>eq** | Emissions = **2 375,12 t** | EEOI = 22.59 g GHG / t.km

Pollutant : **NOx** | Emissions = **1,16 t**

Pollutant : **SOx** | Emissions = **0,713 t**

Pollutant : **PM10** | Emissions = **0,653 t**

Equivalent trip (REF) - (505)

Maritime segment : **Lisbon - Baltimore**

Data : Real  Calculated

Distance : 4900 km | Load : 21453 t

Means of transportation : Roro 9999 t - (3)

GHG : **CO<sub>2</sub>eq** | Coef = 38,06 g CO<sub>2</sub>eq / t.km | Emissions = **4 000,86 t**

Pollutant : **NOx** | Emissions = **Data unavailable**

Pollutant : **SOx** | Emissions = **Data unavailable**

Pollutant : **PM10** | Emissions = **Data unavailable**

# Avoidance 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 : **CO<sub>2</sub>eq** | 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**

Equivalent trip (REF) - (507)

Maritime segment : **New York - Rotterdam**

Data : Real  Calculated

Distance : 5900 km | Load : 13685 t

Means of transportation : RoRo 15000+ - (93)

GHG : **CO<sub>2</sub>eq** | Coef = 13,97 g CO<sub>2</sub>eq / t.km | Emissions = **1 127,96 t**

Pollutant : **NOx** | Emissions = **Data unavailable**

Pollutant : **SOx** | Emissions = **Data unavailable**

Pollutant : **PM10** | Emissions = **Data unavailable**

# Avoidance report

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 : **CO<sub>2</sub>eq** | 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**

Equivalent trip (REF) - (509)

Maritime segment : **Rotterdam - New York**

Data : Real  Calculated

Distance : 5900 km | Load : 16874 t

Means of transportation : RoRo 15000+ - (93)

GHG : **CO<sub>2</sub>eq** | Coef = 13,97 g CO<sub>2</sub>eq / t.km | Emissions = **1 390,81 t**

Pollutant : **NOx** | Emissions = **Data unavailable**

Pollutant : **SOx** | Emissions = **Data unavailable**

Pollutant : **PM10** | Emissions = **Data unavailable**

## Global summary

### Total emissions ECO

GHG : **CO<sub>2</sub>eq** : Emissions = **6 870,85 t**  
Pollutant : **NOx** : Emissions = **3,58 t**  
Pollutant : **SOx** : Emissions = **2,04 t**  
Pollutant : **PM10** : Emissions = **1,86 t**

### Route emissions (REF)

GHG : **CO<sub>2</sub>eq** : Emissions = **9 969,76 t**  
Pollutant : **NOx** : Emissions = **Data unavailable**  
Pollutant : **SOx** : Emissions = **Data unavailable**  
Pollutant : **PM10** : Emissions = **Data unavailable**

### Overall avoidances

GHG : **CO<sub>2</sub>eq** : Avoidances = **3 098,91 t** | Reduction rate : **31,08 %**  
Pollutant : **NOx** : Avoidances = **Data unavailable**  
Pollutant : **SOx** : Avoidances = **Data unavailable**  
Pollutant : **PM10** : Avoidances = **Data unavailable**