



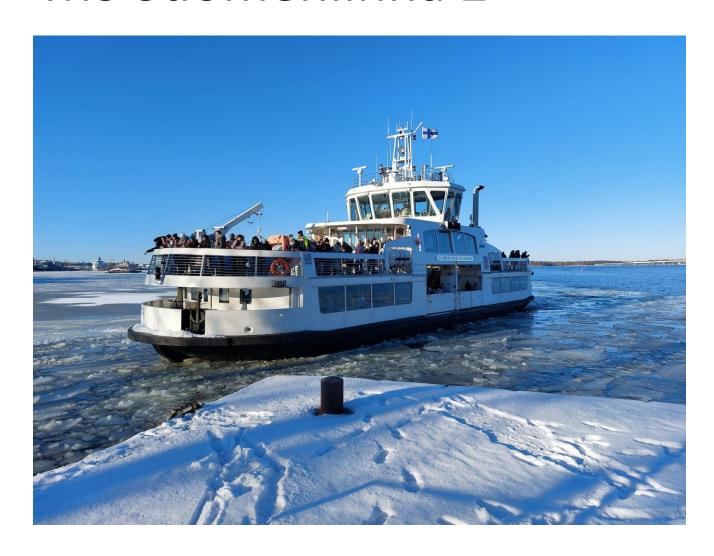
Central Baltic Programme

REISFER



Suomenlinna 2 emission reduction

MS Suomenlinna 2





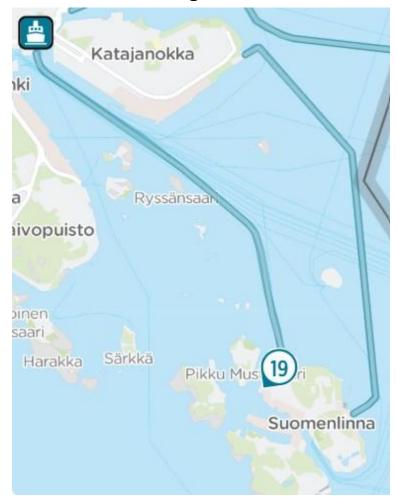
- Loa 33,8m
- Beam 8,5m
- Draught 3,2m
- 2x500kw Azipod
- 395 pax
- In operation since 2004

- In 2024:
 - New gensets, IMO Tier III
 -> new adblue system
 - Drives update = propulsion control renewal
 - Box cooler update
 - Data gathering capability added

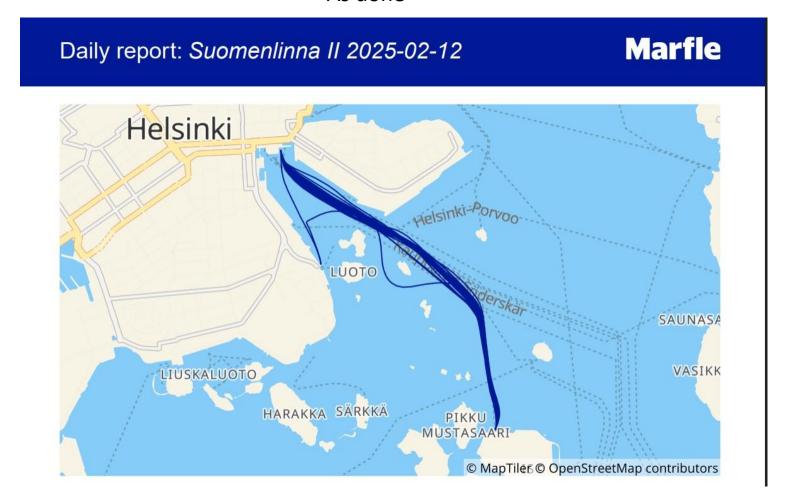
Ferry on 2,7 km route

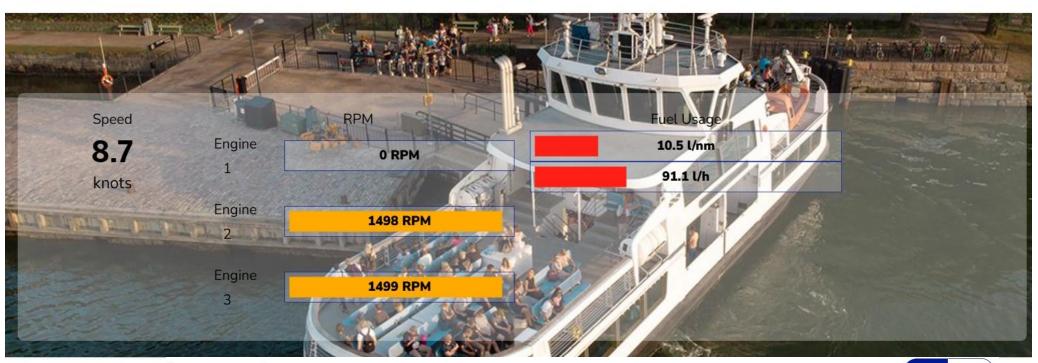


As imagined...



As done







Latest trips

Suomenlinna päälaituri - Kauppatori

1 nm

3.0 knots

17.2 l/nm (25 l, 68 kg CO2)

18.03.2025 09:58

Trips Days

(0h 30min)



Kauppatori - Suomenlinna päälaituri

2 nm

4.5 knots

12.5 l/nm (19 l, 50 kg CO2) 18.03.2025 09:38

(0h 20min)



Suomenlinna päälaituri - Kauppatori

1 nm

4.3 knots

13.3 l/nm (20 l, 53 kg CO2) 18.03.2025 09:17

(0h 20min)

Overview



	Location	Time	
Harbour Departure	Olympiaranta	03:41:28	
Farm Arrival			
Farm Departure			
Harbour Arrival	Olympiaranta	17:17:50	

Phases

Operation	Distance	Time	Avg. speed	Fuel us	Economy		
phase	(nm)	(min)	(knots)	main (I)	aux (I)	(l/nm)	
Harbour operations	1	390	0.1	212	8	-	
Transit, other	56	446	7.6	589	-	10.5	
Totals	57	836	4.1	801	-	14.1	

Modes

Operation	Distance	Time	Avg. speed	Fuel used		Economy	
mode	(nm)	(min)	(knots)	main (I)	aux (I)	(l/nm)	
Slow	3	109	1.4	78	: =	30.0	
Push	1	282	0.2	157	-	140.7	
Transit	53	446	7.2	567	-	10.7	
Totals	57	836	4.1	801	18	14.1	

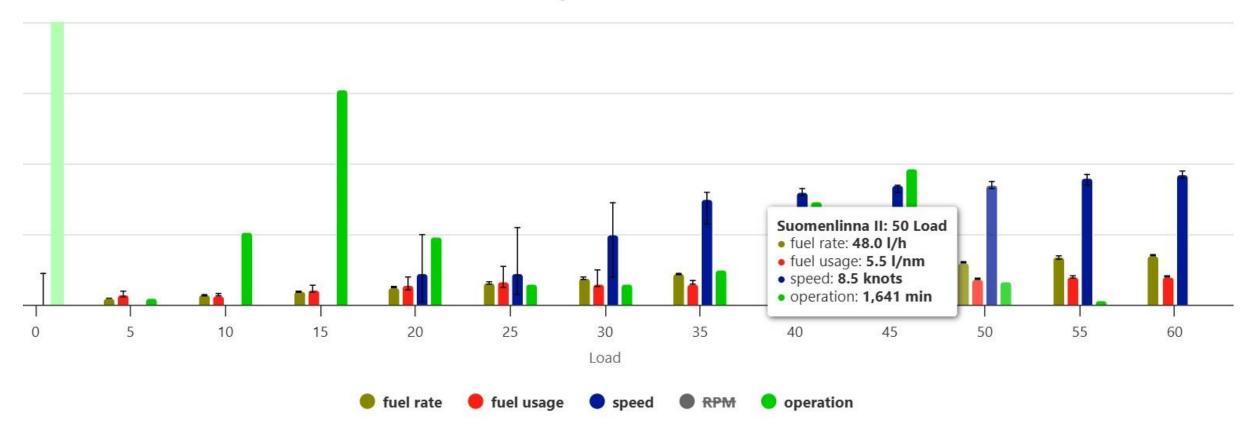


Location S	Start time	Duration	Length	Fuel used		Economy	MSI	WBV
			(nm)	main (I)		(l/nm)	(%)	(%)
Olympiaranta Suomenlinna päälaituri	03:41	12 min	1	15		10.1	?	?
Suomenlinna päälaituri Kauppatori	04:00	12 min	1	13	-1	9.1	?	?





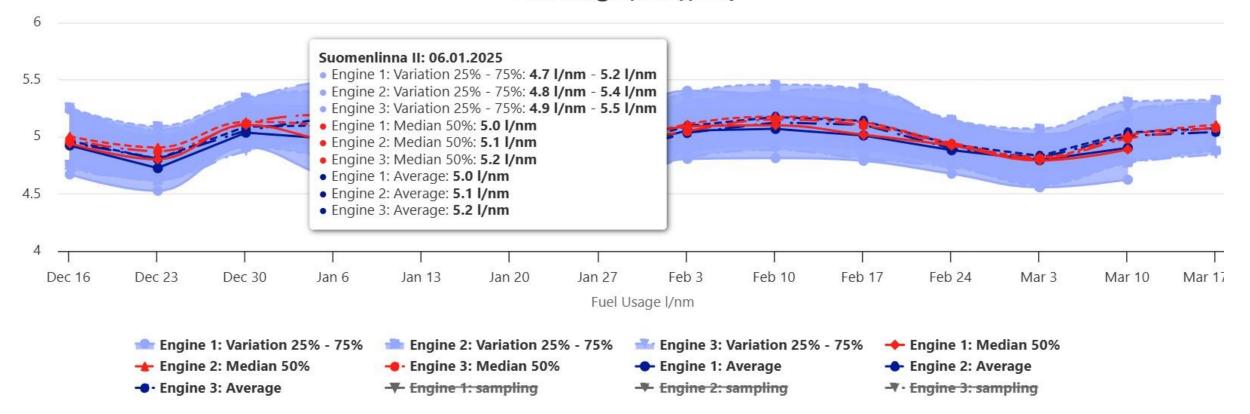
per Load





Overview Operations Report Economy Driving Style Engine Alerts Trend Analysis Logbook Debug

Fuel Usage I/nm (I/nm)





Preliminary findings

Central Baltic Programme

 Data gathering and analysis is the only way to gain understanding







- Human touch has variance in it, but not much. No huge savings appear to be achieveable in operations – will however proceed with monitoring
- Will implement feedback system to facilitate learning and promote culture
- Predicting winter conditions and their future development has huge signifigance in fleet management in the near future