

Clean Shipping Index Certificate of verification

Name of vessel:	VIIKKI	Score:	106	Environmental performance
Owner:	ESLshipping			CSI 4
IMO number:	IMO9797620			****

THIS IS TO CERTIFY that the above-mentioned vessel has been verified by the undersigned according to the Clean Shipping Index, and that, upon completion of the survey the undersigned is of the opinion that the vessel performance is in compliance with the self assessment. The scoring for this vessel meet the requirements of the **CSI 4** classification according to the Clean Shipping Index.

Date of issue: 2022-04-01

Valid until: 2025-04-01

Annual update required: Fulfilled

Jonas Hoffman Surveyor DNV Elin Malmgren Director Clean Shipping Index

			SOx			
Scoring description Company assessment highlighted			Verification assessment Verification comments Guideline for assessmer			
		C	Main engines perations in non-ECAs			
No data/compliance	0	3	LNG & FO <0,1%S. All fue		Office and onboard verification	
Operation <i>only</i> in ECAs (ECA scoring doubles)	0		ME,AE, 2023 average 207 p	7 ppm	Required documents: Bunker Delivery Notes, BDN summaries, Oil Record Book, International Air	
Fuel quality < 0.1% S	3				Pollution Prevention (IAPP) certificate	
"Minimum sulphur fuels" (< 50 ppm S)	5					
Plug-in battery power, fuel cell, wind power or similar	5					
			Main engines Operations in ECAs			
No data/compliance	0	2			Office and onboard verification	
Operation <i>only</i> in non-ECAs (scoring above doubles)	0				Required documents: Bunker Delivery Notes, BDN summaries, Oil Record Book, International Air	
"Minimum sulphur fuels" (< 50 ppm S)	5				Pollution Prevention (IAPP) certificate	
<500ppm S	2					
Plug-in battery power, fuel cell, wind power or similar	5					
			Aux. engines			
No data/compliance	0	2			Office and onboard verification	
Fuel quality < 0.1% S outside SECAs	2				Required documents: Bunker Delivery Notes, BDN summaries, Oil Record Book, International Air	
Shore-side electricity	5				Pollution Prevention (IAPP) certificate	
"Minimum sulphur fuels" (< 50 ppm S)	5					
Plug-in battery power, fuel cell, wind power or similar	5					

PM							
Scoring description Company assessment highlighted		Verification assessment Verification comments Guideline for assessme		Guideline for assessment			
PM Main engines, operation in non-ECAs							
No data/compliance	0	3	2023 average S, 207 ppr	m		oard verification	
Operation <i>only</i> in ECAs (ECA scoring doubles)	0					ments: y Notes, BDN summaries, ık, International Air	
Fuel quality < 0.1% S	3				Pollution Preve	ention (IAPP) certificate,	
PM < 0.2 g/kWh	3				Measurement I factors	report with PM emission	
PM < 0.1 g/kWh	5				Taclors		
Minimum sulphur fuels (< 50 ppm) S	5						
Plug-in battery power, fuel cell, wind power or similar	5						
PM Main engines, operation in ECAs							
No data/compliance	0	1				oard verification	
Operation <i>only</i> in non-ECAs (scoring above doubles)	0					ments: y Notes, BDN summaries, ık, International Air	
"Minimum sulphur fuels" (< 50 ppm S)	5				Pollution Preve	ention (IAPP) certificate, report with PM emission	
PM < 0.2 g/kWh	3				factors		
PM < 0.1 g/kWh	5						
<500ppm S	1						
Plug-in battery power, fuel cell, wind power or similar	5						
PM aux.engines							
No data/compliance	0	0				oard verification	
PM < 0.2 g/kWh	3				Required docu	ments: y Notes, BDN summaries,	
PM < 0.1 g/kWh	5				Oil Record Boc	, k, International Air	
Shore-side electricity	5					ntion (IAPP) certificate, report with PM emission	
"Minimum sulphur fuels" (< 50 ppm S)	5				factors		
Plug-in battery power	5						

			NOx				
Scoring descriptic Company assessment hi		ed	Verification assessment	Verification comments	Guideline for assessment		
			NOx main engines				
No data/ No score	0	0	Tier II Office a		nd onboard verification		
25% below Tier III level	10			Required docu			
50% below Tier III level	18			Engine International Air Pollution Prevention (EIAPP) certificate, Other			
Plug-in battery power, fuel cell, wind propulsion or similar no- NOx propulsion method	21			approved NO> calculations	(measurements or		
Tier III levels with proven emissions before 2021-01-01	18						
	NOx auxiliary engines						
No data/ No score	0	6	Tier III (LNG)		poard verification		
25% below Tier III level	4			Required documents: Engine International Air Pollution Prevention (EIAPP) certificate, Oth			
50% below Tier III level	7				APP) certificate, Other		
Plug-in battery power, shore- side electricity, fuel cell,wind propulsion or similar no-NOx method	9			approved NO> calculations	(measurements or		
Tier III levels with proven emissions before 2021-01-01	6						
No auxiliary engines	4						

			CO2		
Scoring description Company assessment highlighted			erification assessment	Verification comments	Guideline for assessment
		C	D2 emission information		
No data	0	3			oard verification
CO2 per TEU-km according to BSR	3				ments: ch voyage, split on ballast if applicable, with sailed
CO2 per tonne-nm according to MEPC (EEOI)	3			distance, port c type and mass engine, auxilian other consump available over c more). Docume	alls, cargo transported, of fuel consumed for main y engines, boilers and tion. Data preferably one calendar year (or entation explaining nd calculation used for
		CO2 e	mission performance CC	WG	
No data	0	0		Office and onbo	
Reference value or above	0			Required docur	ments: ch voyage, split on ballast
< Reference value	3			and laden legs	if applicable, with sailed
> 5% below reference	6				alls, cargo transported, of fuel consumed for main
> 10% below reference	9			engine, auxiliary	y engines, boilers and
> 15% below reference	12				tion. Data preferably one calendar year (or
> 20% below reference	15				entation explaining
> 25% below reference	18				nd calculation used for
> 30% below reference	21			establishing CC	2 tootprint.
> 35% below reference	24				
> 40% below reference	27				
		CO2 6	emission performance EE	:01	
No data	0	27	2023 MRV data used. Sc		
20% above reference or more	0		55,1% below reference \		ments: ch voyage, split on ballast
< 20% above reference	3			and laden legs	if applicable, with sailed
< 15% above reference	6				alls, cargo transported, of fuel consumed for main
< 10% above reference	9			engine, auxiliary engines, boilers	
< 5% above reference	12				tion. Data preferably
Reference value or below	15			available over one calendar year (more). Documentation explaining	
> 5% below reference	18			methodology a	nd calculation used for
> 10% below reference	21			establishing CC	12 100tprint.
> 15% below reference	24				
> 20% below reference	27				

			Chemicals				
Scoring description			/erification assessment	Verification comments Guideline for ass	sessment		
Company assessment hig	gniighte	ea	Antifouling				
No data	0	7	, introoming	Onboard verification			
Other/ Controlled Depletion Polymer (CDP)	0	·		Required documents: Anti-Fouling System(AFS) certific			
Biocidal antifouling paints	0			Material Safety Data Sheet (MSD: Technical Data Sheet (TDS)	5),		
Non-biocidal antifouling paints	7						
			Stern Tube Oil				
No data	0	7		Onboard verification			
Mineral oil based	0			Required documents: MSDS, TDS			
Air seal	7						
Based on biodegradable oil	5						
Water lubrication	7						
Not applicable	7						
			External hydraulic fluids				
No data	0	3	Capped systems.	Onboard verification			
Mineral oil based	0			Required documents: MSDS, TDS			
Ext. hydraulics exchanged to electrical power	3						
Based on biodegradable oil	3						
Ext. hydraulic system capped	3						
Gear oils for thrusters and controllable pitch (CP) propellers							
No data	0	5		Onboard verification Required documents:			
Mineral oil based	0			MSDS, TDS			
Based on biodegradable oil	5						
Not applicable	5						
			er/ Cooling water treatme				
No data Classified as CMR, toxic, sensitizing, dangerous to the	0	2		Onboard verification Required documents: MSDS, TDS			
environment Not classified as above (nitrite	2						
exclusive)							
No data	0	2	Cleaning agents	Onboard verification			
Classified as CMR, dangerous to the environment or toxic	0	3		Required documents: MSDS, TDS			
Not classified as above	3						
			Refrigerants				
No data	0	3		Onboard verification			
Non-natural (excluding the HFCs below)	0			Required documents: MSDS, TDS,IAPP certificate, Refri Record Book	igerant		
HFCs complying with GWP<3500 and ODI=0	1						
Natural (NH3, CO2) or HFCs complying with GWP<1850 and ODI=0	3						

	٧	/ ater	and waste contro	
Scoring descriptic Company assessment his		\	/erification assessment Verific	ation comments Guideline for assessmen
			Grey water	
No data	0	3	All grey water through treatmen	t Onboard verification
No treatment	0		plant,	Required documents: Certificate of Type Approval for Sewage
No discharge in sensitive areas (PSSA) or treatment in sewage plant onboard	3			Treatment Plant (if applicable), International Society of Sustainability Professionals (ISSP) certificate (if in place Proposed Management System (PMS) documentation (if in place) Sewage handling manuals
			Sewage / Black water	
No data/ no treatment	0	4		Onboard verification
Sewage treatment plant according to MEPC onboard	4			Required documents: Certificate of Type Approval for Sewage Treatment Plant (if applicable),
Sewage is left on land for treatment	5			International Society of Sustainability Professionals (ISSP) certificate (if in place Proposed Management System (PMS) documentation (if in place) Sewage handling manuals
			Garbage handling	
No data	0	4		Onboard verification
Incinerator used on board	0			Required documents: Garbage Record Book, Garbage
No incinerator on board or documented no incineration of garbage and no waste overboard and separate garbage handling for reuse, recycling and disposal	4			Management Plan
			Sludge handling	
No data	0	4		Onboard verification
Incinerator used on board	0			Required documents: International Oil Pollution Prevention
No incinerator on board or documentation of no incineration of sludge and disposal of sludge to treatment on shore	4			(IOPP) certificate, Oil Record Book
			Bilge water treatment	
No data	0	6		Onboard verification
Gravimetric separation	0			Required documents: IOPP certificate, PMS documentation (if i
Active treatment installed and < 5ppm oil in outgoing water	4			place)
Active treatment installed and < 5ppm oil in outgoing water and emission control box in place	6			
Active treatment installed and < 15ppm oil in outgoing water	3			
Discharge to onshore facility	6			
			Crew awareness	
No data	0	3		Onboard verification
Documented education of personnel on environmental awareness, health risks and adequate protective equipment	3			Interview survey
			Scrubber water	
Release of either open-loop or closed loop scrubber water to the sea	0	5	LNG and distillate fuel operation no scrubber	n, Onboard verification Required documents: Bunker Delivery Notes, BDN summaries,

Use of residual oil or mixed fuels containing residual oil, such as VLSFO or ULSFO

Use of distillate oil such as MGO, LNG or alcohols as fuel or plug-in battery power, fuel cell, wind power or similar

Oil Record Book

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