AVEVAWORLD PARIS



AND THE PATH TOWARDS ZERO CARBON



Delivering Marine Shipping Ingenuity WORLDWIDE

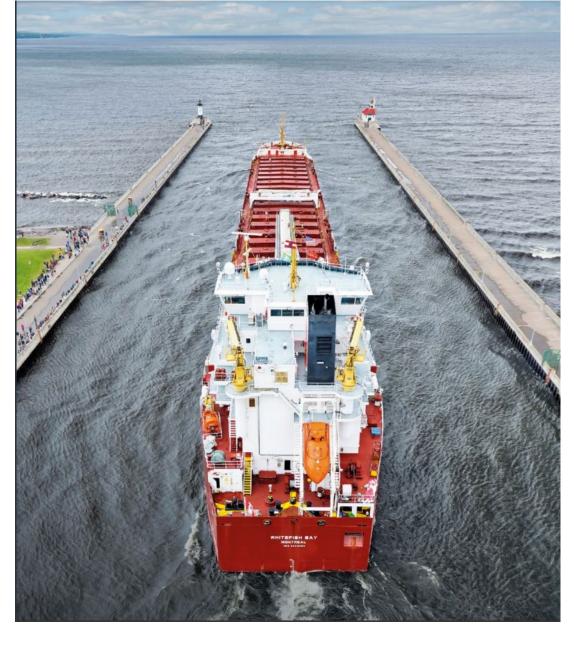
OUR CURRENT TOP FIVE MATERIAL TOPICS











La Compagnie Du Richelieu

In 1845, Jacques Sincennes creates La Compagnie du Richelieu, consisting of one paddle steamer and a towed barge to help farmers get their goods up the Richelieu River and along the St. Lawrence River to market in Montreal. The Richelieu River links Lake Champlain and the St. Lawrence River. Sincennes' company evolves into the Richelieu & Ontario Navigation Company, the foundation of what would eventually become Canada Steamship Lines. Inland shipping ventures such as Sincennes' grow and multiply over the next 68 years in a very fragmented way, with each serving a particular route and little overlap or coordination of services.

Over 175 Years of Shipping History

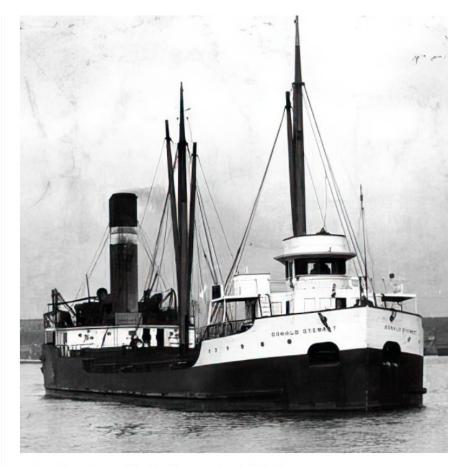


The Chippewa, launched in 1893



Over 175 Years of Shipping History

> 1940



Donald Stewart is one of five CSL ships lost during World War II

CSL Ships Support The Allies

During the Quebec Conference, a highly secret military meeting is held in Quebec City between the British, Canadian and United States governments. CSL's SS Tadoussac transports all attending senior officers, including Britain's Lord Louis Mountbatten and U.S. Gen. George Marshall.

World War II ends with CSL back in the black. The company has lost five Lakes ships to enemy action: the Magog, the Waterloo, the Lennox, the Donal Stewart and the Norfolk. The end of the war also ushers in a quicker pace to life, all but ending the era of leisurely river cruises. With better highways and more affordable cars, people can travel from place to place faster than ever before. After the war, responding to massive industrialization and the growth of the steel industry and related need to transport iron ore, Sir James Dunn, owner of Algoma Steel, buys control of CSL to assure supplies.

CSL Focus on Cargo Shipping

CSL winds up its celebrated passenger service to focus on the more lucrative cargo transport business. The company is among the last owners of passenger steamers in North America's inland waters.

> 1980

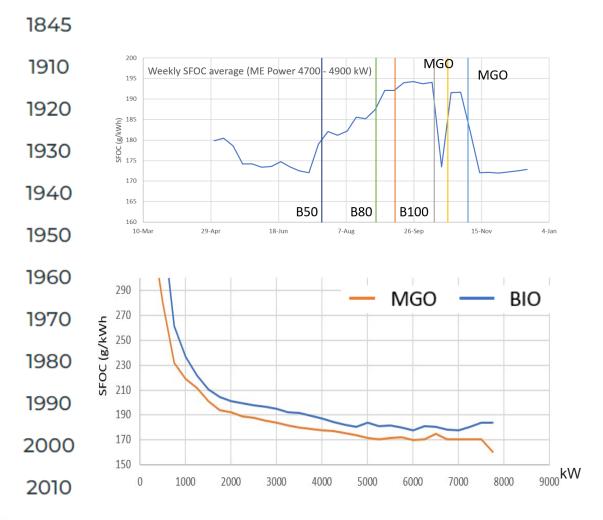
Over 175 Years of Shipping History



The Rimouski, launched in 1965



Over 175 Years of Shipping History



> 2020

World's Longuest Running B100 Biofuel Trials

On August 2019, CSL runs its first test of a marine biofuel made of 50% bio-content made from waste agricultural products. on the 36,920 DWT self-unloading bulk carrier Atlantic Huron. The test shows promising results as a transition fuel towards decarbonization.

completes the world's longest-running trials of B100 biodiesel on marine engines, accumulating nearly 30,000 running hours. Conducted on half of CSL's Canadian fleet, the tests result in a 23% total fleet life cycle reduction of CO2 as compared to marine gas oil (MGO). During the trials, 14,000 tonnes of MGO was substituted for 100% bio-content second-generation biofuel, requiring no modification to existing ship equipment. The test results confirm the potential of biodiesel as a realistic and immediate alternative to fossil fuel to support the decarbonization of the marine transportation sector.

Excellent Anecdote where AVEVA greatly help at the beginning of this Trial: Fuel test were showing a calorific value equal to MGO while we found, with the PI System that it was between 12 to 15% less. Calorific value is directly proportional to fuel consumption

CSL Acquire 50% of Peak Group

2023

2022

2021

> 2024

Under the Peak CSL Group banner, the company is positioned to provide an expanded suite of services, particularly catering to the fast-growing offshore renewable energy sector.

This will cover rock and ballast logistics support for offshore wind farms, turnkey material transfer solutions and a fleet of project carriers that includes low-to-zero emission vessels.

Over 175 Years of Shipping History





24 HOURS A DAY

24 hours a day operation at speeds up of up to 5,000 tonnes per hour



OFFSHORE WIND PROJECTS

Self-unloaders are ideally suited and costeffective to support offshore wind projects



High-precision discharge boom pinpoints cargo placement



2023 Highlights

Environment

16,377 MT

OF B100 BIODIESEL USED ON 8 VESSELS

29% CARBON INTENSITY REDUCTION VS 2005 LEVELS

8% OF TOTAL ENERGY CONSUMED IS RENEWABLE

6% INCREASE IN VOLUME OF RECYCLING

3 (000 100.00



















Social



0.6 LOST-TIME INJURY

4.1% REDUCTION IN VOLUNTARY EMPLOYEE TURNOVER

9.41 NET PROMOTER SCORE FOR CUSTOMER SATISFACTION

OF NET PROFIT DONATED TO CHARITIES AND DISASTER RELIEF

3 2000 HEALTH















Governance













2022

2021

> 2023

2024



Today's CSL At a Glance



CANADA STEAMSHIP LINES

12 self-unloaders 5 bulkers



CSL EUROPE

3 self-unloaders2 CSL-Hartmann self-unloaders Joint venture

1 Marbulk self-unloader Joint venture

2021

2022

2023

> 2024

CSL AMERICAS 10 self-unloaders

8 self-unloaders Commercially managed only



CSMT

transhipper multi-purpose product vessels (MPPs)



MARIAC AFRICA

6 transhippers Includes shuttle vessels

2 barges

7 tugs

1 transhipment crane



CSL AFRICA

2 transhippers



CSL AUSTRALIA

3 self-unloaders

2 bulkers

5 cement ships

4 transhippers

2 barges







CSL Venture in Digital Twinning







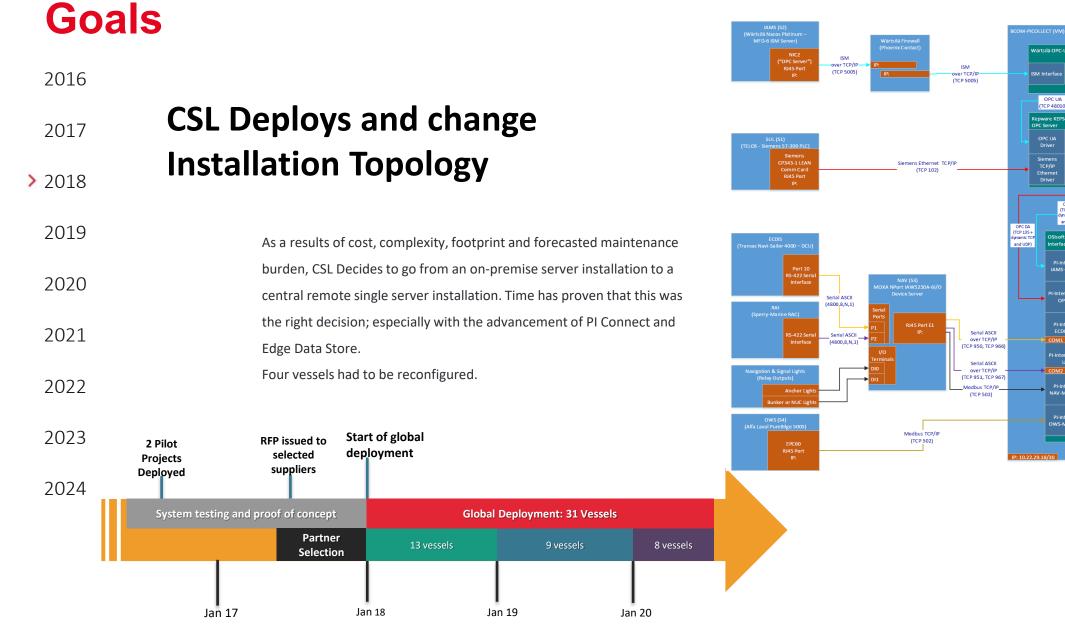
With Aggressive Health & Safety, Decarbonization and Environmental goals, CSL feels the need to explore Digitalization of their Asset.

As a Pilot, they installed the AVEVA PI System on board M/V Thunder Bay and CSL Niagara; respectively a modern Trillium Class Vessel and an older recently Repowered Forebody Class Vessel

Leveraging Digital Technology to Achieve our Goals

2016 > 2017 2018	First Use Case: Brief Description: OWS running at night: O2 red flags on one Vessel		ioes Entrepris	
2019	Case: OWS running too much		after a year of Data Analytics; CSL	•
2020	solution: To install mechanical seals instead of packing. Cost \$15,000	Deploy the Solution World	ent with AVEVA and Chose Maya H	I I as their Partner to
2021	\$12,000 spent in parts in 2016 for the OWS.			
2022	90% of \$12,000= 10,800\$. 30% Contingency:	Compliance / Process Digitalization	Energy Management	Asset Management
2023	10,800 (-\$3240) = \$7,560 x 2 years:		6	
2024	\$15,120 in addition to Environmental Risks & Energy Savings.	10% of benefits	50% of benefits	40% of benefits

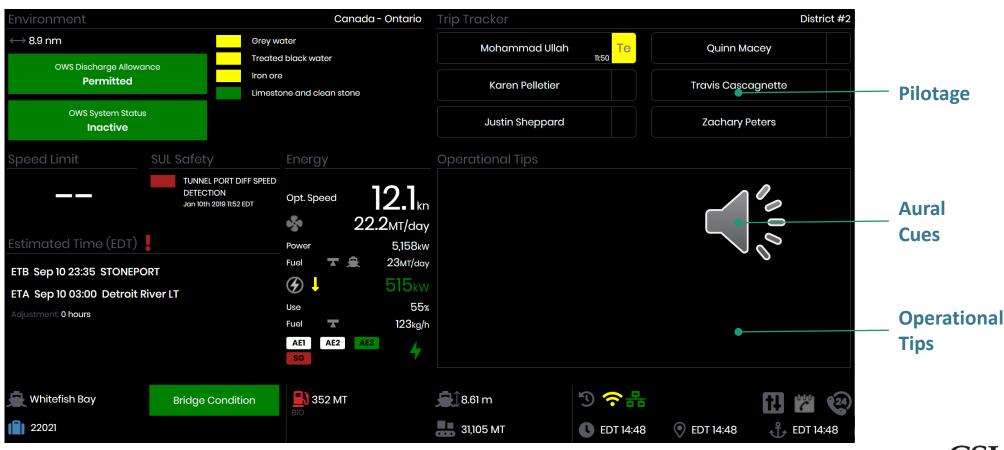
Leveraging Digital Technology to Achieve our



CSL Creates Custom Application - The O2 HMI

The Power of AVEVA made it seamless for CSL to build their onboard custom application linked to the AVEVA PI System. O2 HMI permits to have offline experience, well develop in taking manual inputs and design compliant with Bridge Console Equipment

> 2019



Among Other Things



2020	O2 Team Reorganization - A mix of Deployment, Development and Value Finding And A new Logo for O2
2021	Conjoint Project With AVEVA and Advance Analytics
2022	O2 Team Reorganization – Creation of Standard, System and Support Center (S3C)
2023	Project Closure and Value Finding > New vessels under new built / conversion umbrella
2024	O2 Project is getting out of CSL > Plan to install on a new vessel of one of our Joint Venture. Connecting O2 with Vessel Plan Maintenance - ShipSure

O2 overview – We are Innovators

2- Expanding with Context

Vessel data is enriched with voyage, geofencing, traffic, compliance, weather, and user inputs

1- Digitizing Vessel Data

Systems data and crew inputs are captured and archived in a digital twin located onshore

CSLTACOMA		
Data Source	OT Sensor	Status
ECDIS	NAV MOXA	
Nav. Lights	NAV MOXA	
RAI	NAV MOXA	
AMS	MFD5	
Ammeters	AMS	
Flow Meters	AMS	
Torque Meter	AMS	
SUL	CP Lean Processor	
ows	Alfa Laval BlueBox	















Digital Twin



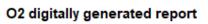
Voyage (IMOS) Traffic

Geofencing (ESRI)

Weather

Compliance





GREAT LAKES PILOTAGE REGION DISTRICTS TRANSIT SUMMART		
(C)-Carnuall (Saint-Lambort ta Snoll)	0	
(1)-Dirtrict 1 (Snoll to Capo Vincont)	0	
(LO)-Lake Ontaria (Cape Vincentta Part Weller)	3	
(2)-District 2 (Part Waller to Huran Cut Buyas 11812)	11	
(3)-Dirtrict 3 (Navigable waters abose Huron Cut Buoys 11%12) 0		

3- Advisory and Analytics

Produces decisional Advisory Dashboards and Analytics Reports using algorithms and third party plugins. Helps crew and office make better-informed decisions.

CSLTACOMA		
Data Source	OT Sensor	Status
ECDIS	NAV MOXA	
Nav. Lights	NAV MOXA	
RAI	NAV MOXA	
AMS	MFD5	
Ammeters	AMS	
Flow Meters	AMS	
Torque Mete	AMS	
SUL	CP Lean Processor	
ows	Alfa Laval BlueBox	

CSL SPIRIT		
Data Source	OT Sensor	Status
ECDIS	NAV MOXA	
Nav. Lights	NAV MOXA	
RAI	NAV MOXA	
AMS	ECR MOXA 1	
Flow Meters	ECR MOXA 2	
Torque Meter	ECR MOXA 2	
SUL	CP Lean Processor	
ows	Alfa Laval BlueBox	

THUNDER BAY		
Data Source	OT Sensor	Status
ECDIS	NAV MOXA	
Nav. Lights	NAV MOXA	
RAI	NAV MOXA	
AMS	MFD6	
Ammeters	AMS	
Flow Meters	AMS	
Torque Meter	AMS	
SUL	CP Lean Processor	
OWS	Alfa Laval BlueBox	
	•	

CSL NIAGARA		
Data Source	OT Sensor	Status
ECDIS	NAV MOXA	
Nav. Lights	NAV MOXA	
AMS	AM.PN05	
Flow Meters	AM.PN05	
Torque Meter	AM.PN05	
Ammeters	AM.PN05	
SUL	Hilscher NL-50-MPI	
ows	WhiteBox Recorder	

FERBEC		
Statu		

SHEILA ANN		
Data Source	OT Sensor	Status
ECDIS	NAV MOXA	
Nav. Lights	NAV MOXA	
AMS	ECR MOXA 1	
Flow Meters	ECR MOXA 2	
Torque Meter	ECR MOXA 2	
SUL	CP Lean Processor	
OWS	Alfa Laval BlueBox	

COL EDONITIES			
CSL FRONTIER			
Data Source	OT Sensor	Status	
ECDIS	NAV MOXA		
Nav. Lights	NAV MOXA		
RAI	NAV MOXA		
AMS	Praxis Cab./ECR MOXA		
Ammeters	Praxis Cab.		
Flow Meters	Praxis Cab.		
Torque Meter	Praxis Cab.		
SUL	CP Lean Processor		
ows	Alfa Laval BlueBox		

BAIE COMEAU			
Data Source	OT Sensor	Status	
ECDIS	NAV MOXA		
Nav. Lights	NAV MOXA		
RAI	NAV MOXA		
AMS	MFD6		
Ammeters	AMS		
Flow Meters	AMS		
Forque Meter	AMS		
SUL	CP Lean Processor		
OWS	Alfa Laval BlueBox		

CSL LAURENTIEN		
Data Source	OT Sensor	Status
ECDIS	NAV MOXA	
Nav. Lights	NAV MOXA	
AMS	AM.PN05	
Flow Meters	AM.PN05	
Torque Meter	AM.PN05	
Ammeters	AM.PN05	
SUL	Hilscher NL-50-MPI	
ows	WhiteBox Recorder	

	CSL ST-LAURENT	
Data Source	OT Sensor	Status
ECDIS	NAV MOXA	
Nav. Lights	NAV MOXA	
RAI	NAV MOXA	
AMS	MFD6	
Ammeters	AMS	
Flow Meters	AMS	
Torque Mete	AMS	
ows	AMS	

CSL TECUMSEH		
Data Source	OT Sensor	Status
ECDIS	NAV MOXA	
Nav. Lights	NAV MOXA	
RAI	NAV MOXA	
AMS	MFD5	
Ammeters	AMS	
Flow Meters	AMS	
Torque Meter	AMS	
SUL	CP Lean Processor	
OWS	Alfa Laval BlueBox	

CSL KOASEK		
Data Source	OT Sensor	Status
ECDIS	NAV MOXA	
Nav. Lights	NAV MOXA	
RAI	NAV MOXA	
AMS	MPC1 & MPC2	
Flow Meters	AMS	
Torque Mete	AMS	
Ammeters	AMS	
SUL	CP Lean Processor	
ows	Alfa Laval BlueBox	
FIRM	SIP PLC	

	BAIE ST. PAUL	
Data Source	OT Sensor	Status
ECDIS	NAV MOXA	
Nav. Lights	NAV MOXA	
RAI	NAV MOXA	
AMS	MFD6	
Ammeters	AMS	
Flow Meters	AMS	
Torque Meter	AMS	
SUL	CP Lean Processor	
ows	Alfa Laval BlueBox	

F	RH PAUL J. MARTIN	
Data Source	OT Sensor	Status
ECDIS	NAV MOXA	
Nav. Lights	NAV MOXA	
AMS	AM.PN05	
Flow Meters	AM.PN05	
Torque Meter	AM.PN05	
Ammeters	AM.PN05	
SUL	Hilscher NL-50-MPI	
ows	WhiteBox Recorder	

CSL WELLAND		
Data Source	OT Sensor	Status
ECDIS	NAV MOXA	
Nav. Lights	NAV MOXA	
RAI	NAV MOXA	
AMS	MFD6	
Ammeters	AMS	
Flow Meters	AMS	
Torque Mete	AMS	
ows	AMS	

CSL TARANTAU		
Data Source	OT Sensor	Status
ECDIS	NAV MOXA	
Nav. Lights	NAV MOXA	
RAI	NAV MOXA	
AMS	MFD5	
Ammeters	AMS	
Flow Meters	AMS	
Torque Mete	AMS	
SUL	CP Lean Processor	
ows	Alfa Laval BlueBox	

CSL KAJIKA		
Data Source	OT Sensor	Status
ECDIS	NAV MOXA	
Nav. Lights	NAV MOXA	
RAI	NAV MOXA	
AMS	MPC1 & MPC2	
Flow Meters	AMS	
Torque Mete	AMS	
Ammeters	AMS	
SUL	CP Lean Processor	
OWS	Alfa Laval BlueBox	
FIRM	SIP PLC	

WHITEFISH BAY		
Data Source	OT Sensor	Status
ECDIS	NAV MOXA	
Nav. Lights	NAV MOXA	
RAI	NAV MOXA	
AMS	MFD6	
Ammeters	AMS	
Flow Meters	AMS	
Torque Meter	AMS	
SUL	CP Lean Processor	
ows	Alfa Laval BlueBox	

CSL ASSINIBOINE		
Data Source	OT Sensor	Status
ECDIS	NAV MOXA	
Nav. Lights	NAV MOXA	
AMS	AM.PN05	
Flow Meters	AM.PN05	
Torque Meter	AM.PN05	
Ammeters	AM.PN05	
SUL	CP Lean Processor	
OWS	WhiteBox Recorder	

NUKUMI		
Data Source	OT Sensor	Status
ECDIS	NAV MOXA	
Nav. Lights	NAV MOXA	
RAI	AMS	
AMS	MPC1 & MPC2	
Ammeters	AMS	
Flow Meters	AMS	
Torque Meter	s AMS	
SUL	CP Lean Processor	
ows	WhiteBox Recorder	

RT. HON. PAUL E. MARTIN		
Data Source	OT Sensor	Status
ECDIS	NAV MOXA	
Nav. Lights	NAV MOXA	
RAI	NAV MOXA	
AMS	MFD5	
Ammeters	AMS	
Flow Meters	AMS	
Torque Mete	AMS	
SUL	CP Lean Processor	
ows	Alfa Laval BlueBox	
FIRM	SIP PLC	

ADELIE		
Data Source	OT Sensor	Status
ECDIS	NAV MOXA	
Nav. Lights	NAV MOXA	
RAI	NAV MOXA	
Ammeters	DAP PLC	
FiRM: Fike, Co	E1210 MOXA 1	
Flow Meters	ECR MOXA	
Torque Meter	ECR MOXA	
SUL	CP Lean Processor	
OWS	WhiteBox Recorder	

ELANORA		
Data Source	OT Sensor	Status
ECDIS	NAV MOXA	
Nav. Lights	NAV MOXA	
RAI	NAV MOXA	
AMS	MPC1 & MPC2	
FiRM	SIP Panel	
Flow Meters	AMS	
Torque Mete	AMS	
Ammeters	AMS	
SUL	CP Lean Processor	
ows	WhiteBox Recorder	

WYUNA		
Data Source	OT Sensor	Status
ECDIS	NAV MOXA	
Nav. Lights	NAV MOXA	
RAI	NAV MOXA	
AMS	MPC1 & MPC2	
FiRM: Fike, Co	E1210 MOXA	
Flow Meters	AMS	
Torque Meter	AMS	
Ammeters	AMS	
ows	WhiteBox Recorder	

FRONTENAC		
Data Source	OT Sensor	Status
ECDIS	NAV MOXA	
ows	WhiteBox Recorder	
	•	
ATLANTIC HURON		

ATLANTIC HURON		
Data Source	OT Sensor	Status
ECDIS	NAV MOXA	
ows	WhiteBox Recorder	

CSL METIS		
Data Source	OT Sensor	Status
ECDIS	NAV MOXA	
Nav. Lights	NAV MOXA	
RAI	NAV MOXA	
AMS	Hijoy Switch	
Ammeters	DAP Panel	
Flow Meters	AMS	
Torque Mete	AMS	
SUL	CP Lean Processor	
OWS	Alfa Laval BlueBox	
FIRM	SIP PLC	

AKUNA		
Data Source	OT Sensor	Status
ECDIS	NAV MOXA	
Nav. Lights	NAV MOXA	
RAI	NAV MOXA	
AMS	MPC1 & MPC2	
FiRM: Fike, Co	E1210 MOXA	
Flow Meters	AMS	
Torque Meter	AMS	
Ammeters	AMS	
ows	WhiteBox Recorder	

GOLIATH		
Data Source	OT Sensor	Status
ECDIS	NAV MOXA	
Nav. Lights	NAV MOXA	
AMS	SCU + mGuard	
FiRM: Fike, Co	E1210 MOXA	
Ammeters	AMS	
SUL	OPC Server (PC cabinet)	
ows	WhiteBox Recorder	

CSL RELIANCE		
Data Source	OT Sensor	Status
ECDIS	NAV MOXA	
Nav. Lights	NAV MOXA	
FiRM: Fike, Co	E1210 MOXA	
FIRM: LHD, De	E1210 MOXA	
SUL	RedLion	
Flow Meters	ECR MOXA	
Torque Meter	ECR MOXA	
Ammeters	DAP PLC	
ows	WhiteBox Recorder	

OAKGLEN		
Data Source	OT Sensor	Status
ECDIS	NAV MOXA	
ows	WhiteBox Recorder	

CSLTADOUSSAC		
Data Source	OT Sensor	Status
ECDIS	NAV MOXA	
ows	WhiteBox Recorder	

	DONNACONA	
Data Source	OT Sensor	Status
ECDIS	NAV MOXA	
Nav. Lights	NAV MOXA	
RAI	NAV MOXA	
Ammeters	DAP PLC	
FiRM: Fike, C	E1210 MOXA 1	
Flow Meters	ECR MOXA	
AMS	Phoenix Cont. Firewall	
DEIF PMS	Phoenix Cont. Firewall	
Ballast PLC	Pleiger MOXA + RedLio	1
SUL	CP Lean Processor	
ows	WhiteBox Recorder	
Pitch	LIPS (MOXA + WAGO)	

KONDILI					
Data Source	Status				
ECDIS	NAV MOXA				
Nav. Lights	NAV MOXA				
RAI	NAV MOXA				
AMS	MPC1 & MPC2				
FiRM: Fike, Co	E1210 MOXA				
Flow Meters	AMS				
Torque Meter	AMS				
Ammeters	AMS				
ows	WhiteBox Recorder				

MAREEBA					
Data Source	OT Sensor	Status			
ECDIS	NAV MOXA				
Nav. Lights	NAV MOXA				
RAI	NAV MOXA				
FIRM	DAP PLC				
Ammeters	DAP PLC				
Flow Meters	ECR MOXA				
Torque Meter	ECR MOXA				
ows	WhiteBox Recorder				

SPRUCEGLEN					
Data Source	OT Sensor	Status			
ECDIS	NAV MOXA				
OWE	M/hitoRoy Recorder				

Data collecting and fully commissioned

Data collecting and partially commissioned OR warrants additional verifications

Data collecting, but not commissioned

Sensor and/or cabling installed

Sensor and/or cabling NOT installed

GOALS AND AMBITIONS

Decarbonization

35% reduction in carbon intensity of shipping operations by 2030 compared to 2005



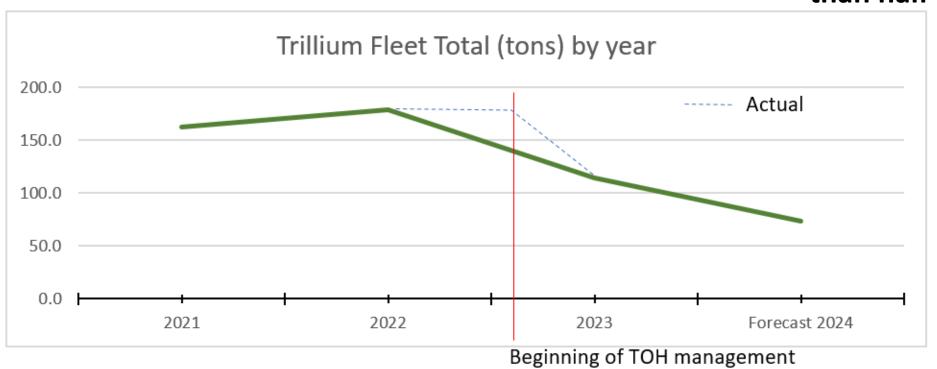
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An evaluation revealed that various initiatives utilizing O2 led to an 8,233-tonne reduction in CO2 equivalent emissions across 11 vessels during the sailing season, compared to the average over five years.

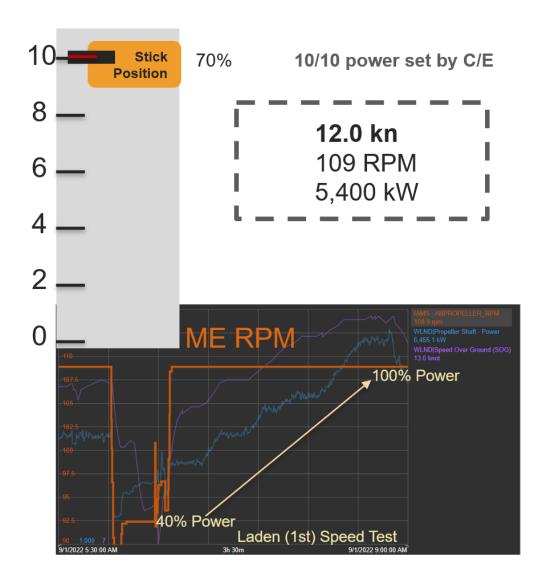
Using Data to find Positive Outliers

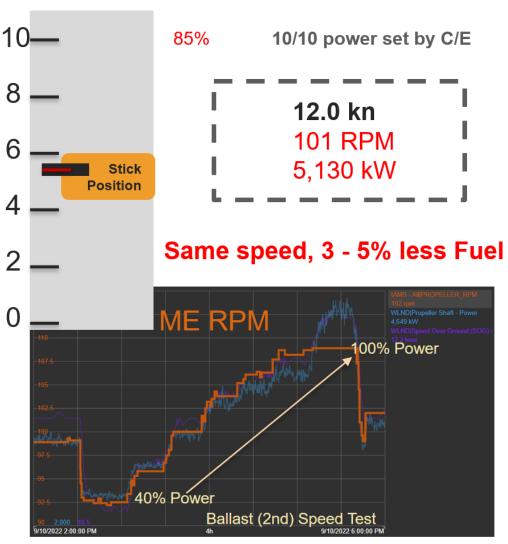
One vessel of a sister fleet came out as an outliers because its consumption was far better than the rest. This was found using the O2 and the tools in place. Investigation was found and just by adjusting settings and slightly change heat management onboard, considerable savings were achieve with out tradeoff nor investment.

Cut TOH Consumption by more than half



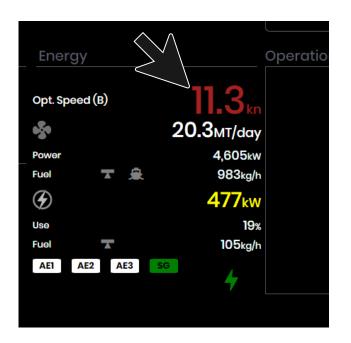
ME Settings Ajustement





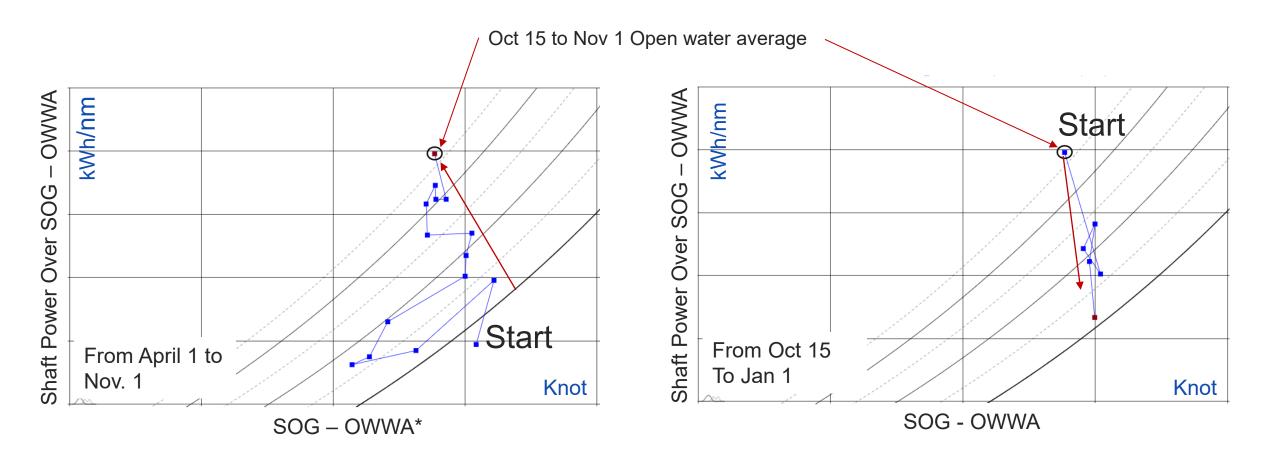
Using Data to prescribe and Maintain Just in Time Speed

With Deep Analytics and AI, CSL has the right Data, the right level of monitoring and the right level off feedback to prescribe the right Speed any time while tools are in place to assist the crew in maintaining this speed. This is a big contributor to 8,233-tonne reduction in CO2 equivalent -





Using Advance Analytics to Detect and confirm Hull Fouling



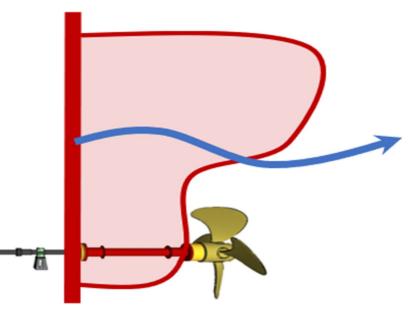


*OWWA – Open Water Weekly (2) Average



Hull Fouling – What Next

In talks with Service Providers, Port Authorities and Governments to find best path Forward on the Great Lakes



GOALS AND AMBITIONS

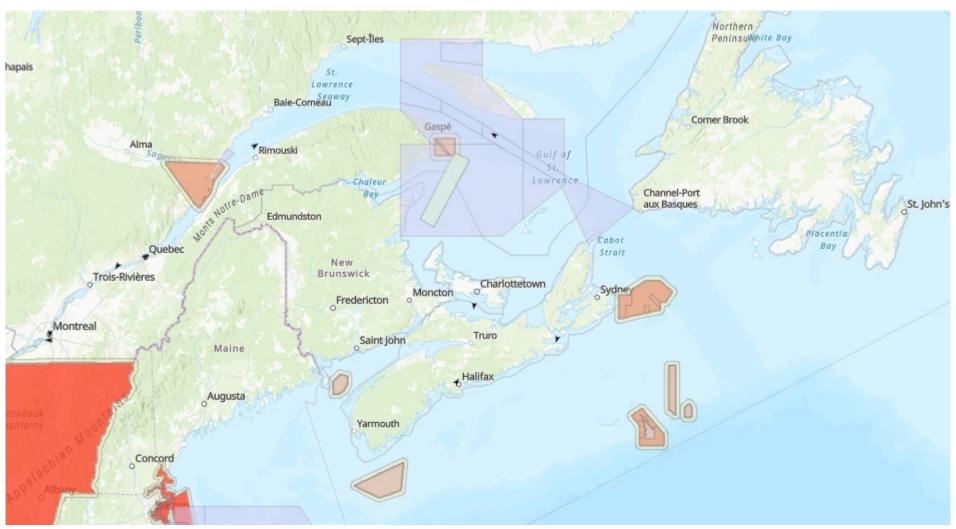
Accidents,
Oil Spills, and
Marine Pollution

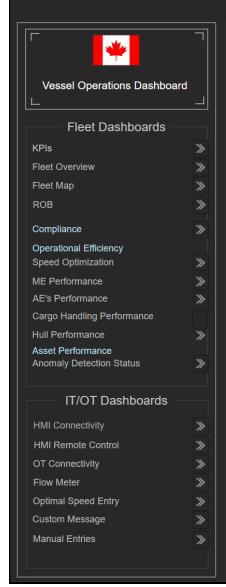


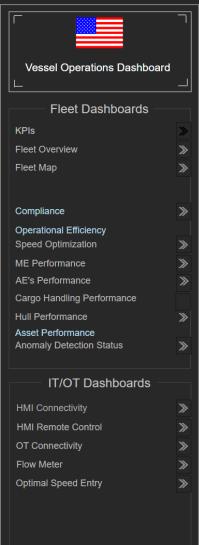
2

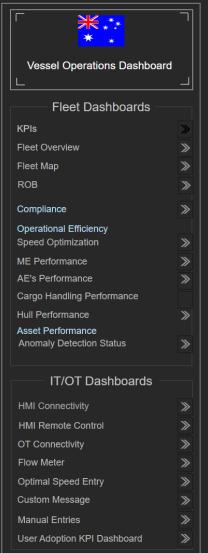
Leveraging data and Geofencing to minimize Accident Via Asset Anomaly Detections and reducing infringements

Whale – Speed Reduction Dynamic Zones



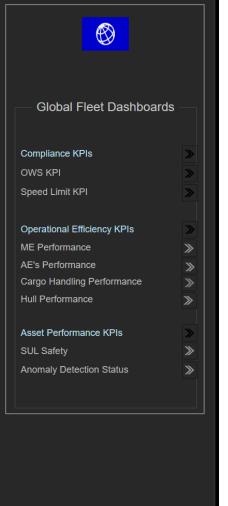






GLOBAL FLEET OPERATIONS DASHBOARDS

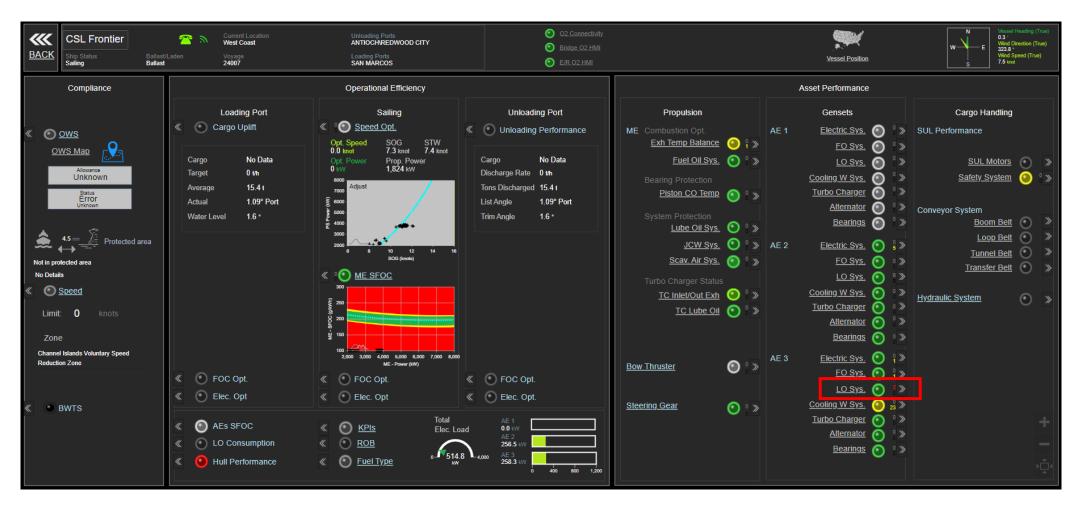




Version 1.4



Very Slow Trending Oil Pressure reveals Auxiliary Engine Oil Bad Condition



Very Slow Trending Oil Pressure reveals Auxiliary Engine Oil Bad Condition

O2 detected a below abnormal trend relating to the ME shaft earthing device.

Please acknowledge the receipt of this notification and provide any findings related to the subject matter.

Anomaly Detection Details

AE 3 LO inlet pressure gradual decreasing

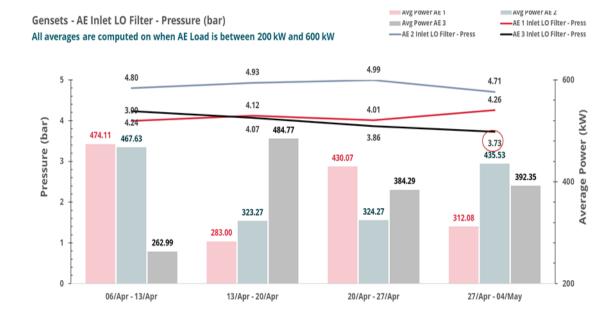
Possible Root Causes

- · Poor LO pump performance
- · Dirty LO filter or LO inlet lines
- Faulty Sensor

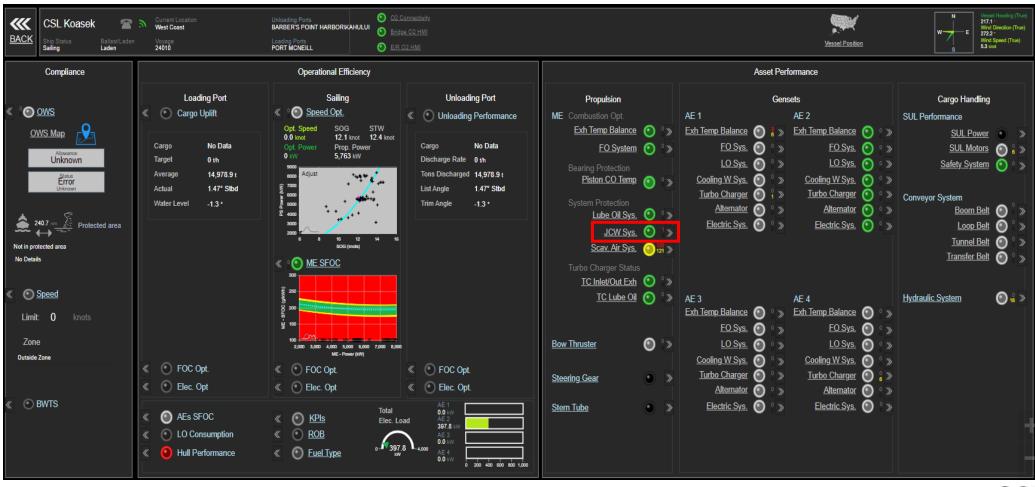
Attachment

- AE 3 Inlet LO Filter Press trend (last 7 days)
- For Comparison: AE Inlet LO Filter Press & AE Inlet LO Filter Temp data for AE 1, AE 2 and AE 3 (Last 30 days)





High Deviation in ME Jacket Cooling Water Outlet (Cyl. 4) Temperature Reveals Cooling Chamber Clogging by Rubber Particles



High Deviation in ME Jacket Cooling Water Outlet (Cyl. 4) Temperature Reveals Cooling Chamber Clogging by Rubber Particles

O2 has detected the following trends related to ME Jacket Cooling Water Outlet Temperature(cylinder 4). Please acknowledge the receipt of this notification and provide any findings related to the subject matter.

Anomaly Detection Details

High deviation in ME Jacket Cooling Water Outlet (cylinder 4) Temperature

Possible Root Causes

- Electrical noise due to poor cable connection to card or terminal
- Cable, terminal, or relevant control module damage.
- Relevant J/B or Panel vibration

Attachment

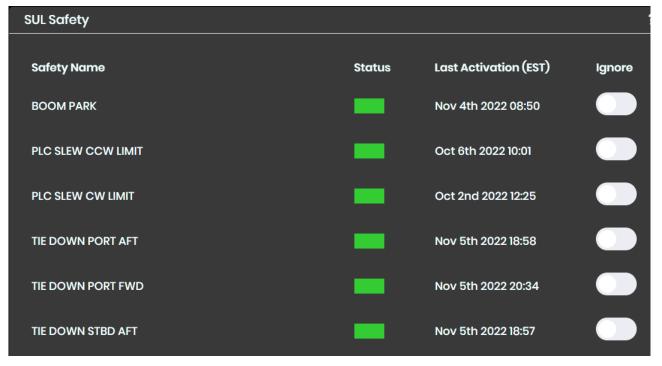
ME Jacket Cooling Water Outlet Temperature trends (all cylinders) (Last 31 days)



SUL Safety Alarms Feature

- O2 SUL Safety alarms feature aims to assist the crew in automatically recoding each time a safety switch, emergency stop or shutdown is activated.
- O2 displays the latest activation date and consequently the appropriate color with the longest standing alarm activation by default on the main dashboard.
- The color of an indicator displays the elapsed period since its activation:
 - Green < 60 days
 - Yellow > 60 days
 - Red > 90 days
 - Gray Unavailable or ignored





SUL SAFETY

Sept 2022



Nov 2022





260 Safeties - 4 Trillium SUL

- Sep 2022: 119 red
- Nov 2022: 0 red (waiting parts, RA in place)
- 4 Forebodies ECD April 2023



788 Safeties - 9 vessels

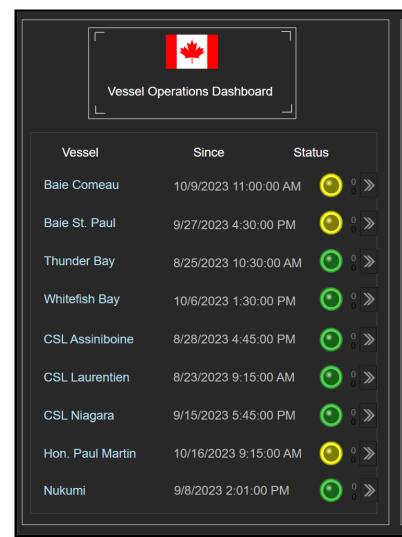
- Commissioning in progress, ECD April 2023
- Metis ECD June 2023



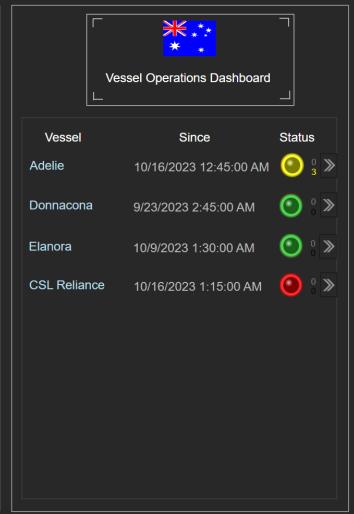
291 Safeties - Adelie, Elanora, Reliance, Donnacona

- Commissioning in progress, ECD April 2023
- Cement ships safeties not many lower priority

SUL SAFETY - NOW







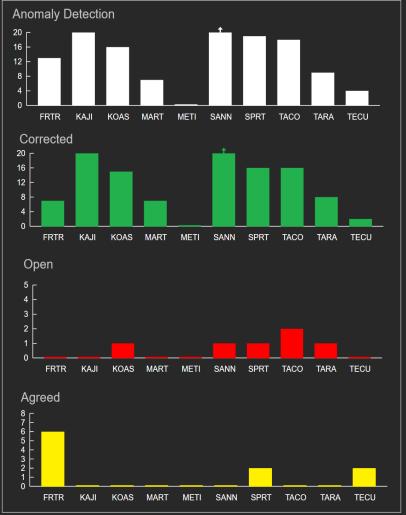
KK BACK

5555555

AME Anomaly Detection Status Dashboard

AME Stats	YTD
Anomaly Detection Corrected Open Agreed	132 116 6 10
Detection Accuracy	97.8 %

	Anomaly Detection	Corrected	Open	Agreed	Detection Accuracy		
CSL Acadian	No Data					0	>
CSL Argosy	No Data					\odot	>
CSL Frontier	13	7	0	6	100.0 %	0	>>
CSL Kajika	20	20	0	0	95.2 %	0	>>
CSL Koasek	16	15		0	100.0 %	0	»
Rt. Hon. Paul E. M	lartin 7	7	0	0	87.5 %	0	>>
CSL Metis	0	0	0	0		0	>>
Sheila Ann	26	25		0	100.0 %	0	>>
CSL Spirit	19	16		2	95.0 %	0	>>
CSL Tacoma	18	16		0	100.0 %	0	>>
CSL Tarantau	9	8		0	100.0 %	0	>>
CSL Tecumseh	4	2	0	2	100.0 %	0	>>



***** BACK AUS Stats** YTD 62 **Anomaly Detection** Corrected Open Agreed **Detection Accuracy** 96.9 %

AUS Anomaly Detection Status Dashboard

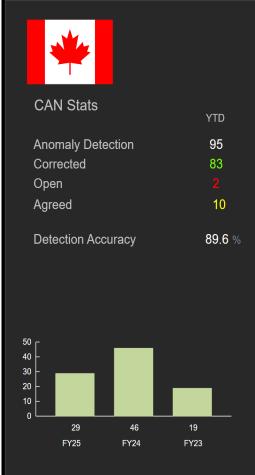
							\neg	
	Anomaly Detection	Corrected	Open	Agreed	Detection Accuracy			/
Adelie	7	7	0	0	100.0 %	0	>	
Akuna	5	4		0	83.3 %	O	>	
CSL Reliance	6	6	0	0	100.0 %	0	>	
Donnacona	4	2	0	2	100.0 %	0	>	
Elanora	20	16		1	95.2 %	0	>	
Goliath	5	5	0	0	100.0 %	0	>	
Kondili	7	7	0	0	100.0 %	0	>	
Mareeba	0	0	0	0		0	>	
Wyuna	8	8	0	0	100.0 %	0	>	



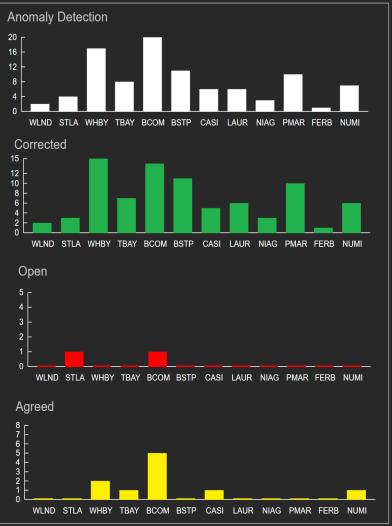
PI Vision - AUS - L1 - AAD KPI (cslships.com)

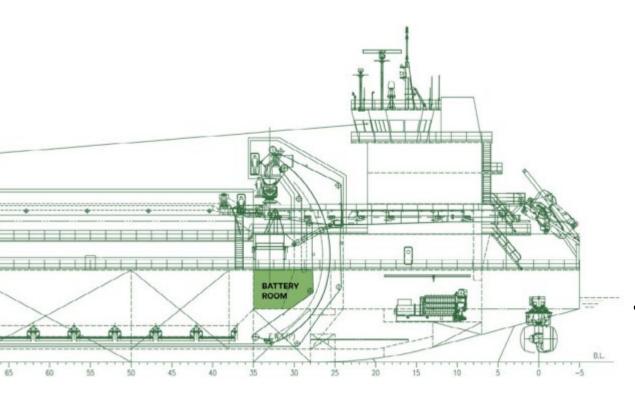


CAN Anomaly Detection Status Dashboard



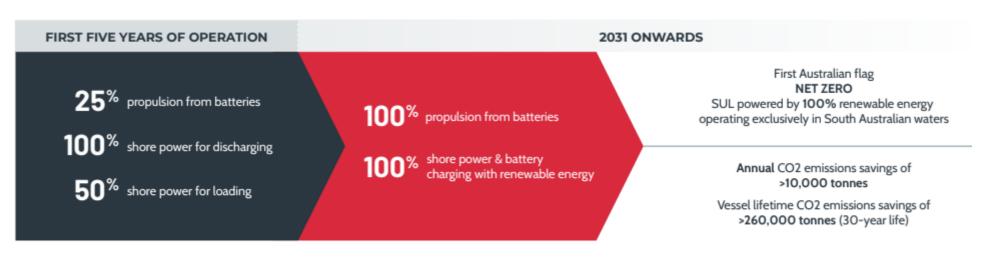
	Anomaly Detection	Corrected	Open	Agreed	Detection Accuracy		
Baie Comeau	20	14		5	100.0 %	0	»
Baie St. Paul	11	11	0	0	91.7 %	0	>>
CSL Assiniboine	6	5	0	1	60.0 %	0	>
Ferbec	1	1	0	0	50.0 %	0	>
CSL Laurentien	6	6	0	0	100.0 %	0	>
CSL Niagara	3	3	0	0	100.0 %	0	>
Nukumi	7	6	0	1	100.0 %	0	>
Hon. Paul Martin	10	10	0	0	83.3 %	0	>>
CSL St Laurent	4	3		0	100.0 %	0	>>
Thunder Bay	8	7	0	1	88.9 %	0	>
Whitefish Bay	17	15	0	2	94.4 %	0	>
CSL Welland	2	2	0	0	66.7 %	0	»





BUILDING THE WORLD'S 2024 FIRST FULLY ELECTRIC 2025 **BATTERY CAPABLE SELF-UNLOADER** 2027

The Path to NET – ZERO Vessels



2023

2026

MARITIME | Global

CSL Group Inc. Achieve 29% Carbon Intensity reduction

Challenge

- Extremely aggressive targets
- Gap between vessel and office
- · Frequent crew changes, availability of senior officers
- technology readiness
- · Hard to get a holistic vision of our fleets

Solution

 Deployed AVEVA™ PI System™ to collect all vessel and other operational data. Leverage System to organize, standardize, represent and give the right insights to meaningful actions

Results

- Deployed system on 40 plus vessels
- Considerable fuel savings and 24/7 monitoring of fuel consumption. Ex.: 8,233 mt of CO2 equivalent across 11 vessels
- Various failure avoidances 300 Anomaly Detections found YTD







Merci - Thank you

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