



TECHNICAL SPECIFICATIONS

Vessel type	Self-Unloading Bulk Carrier
Deadweight (DWT)	34,938 tonnes
Built	1972, converted in 1998
Classification	+ 100 A1
Length Overall	225.50 meters
Breadth Moulded	23.76 meters
Total Hold Capacity (including hatches)	40,207 cubic meters
Gross Tonnage (GT)	23,983 tonnes
Net Tonnage (NT)	7,916 tonnes
Thrusters	Bow and steering nozzle
Horsepower	BHP: 8 0 4 6 kW: 6000
Length of boom	79.00 meters
Average Unloading Rates (mt/hr)	Ore: 5,500 Coal: 4,000

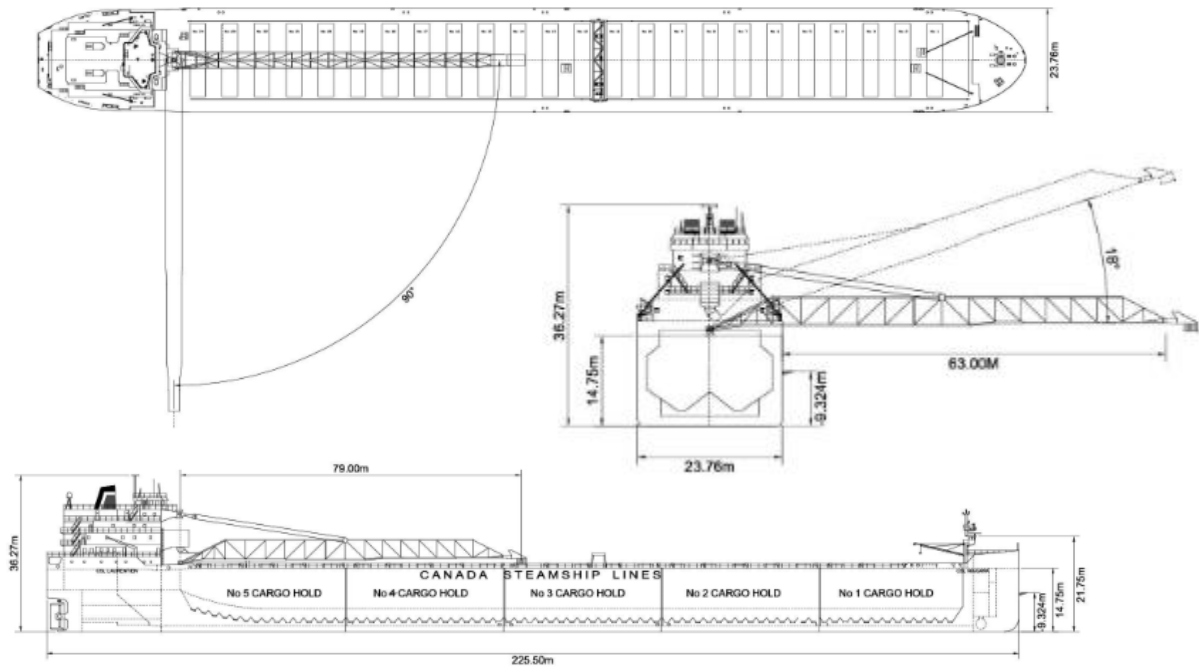
MV *CSL Niagara* is one of Canada Steamship Lines' self-unloading Lakers. She was built in 1972 and converted in 1998.

She is a very versatile vessel. She can do various trades, from ore to grain or stone.

The Equipment onboard consists of hoppers shaped holds, hydraulic cargo gates, two tunnel conveyors, a 'C' Loop elevating belt and a 79.00 m unloading boom. The unloading and ballast systems are automated through a network. Environmental equipment includes containment trays under the boom conveyor and washdown water is contained in a dedicated tank. The cargo tunnel is fitted with high capacity ventilators and is also fitted with explosion proof electrical fittings.

CSL NIAGARA

SELF-UNLOADER



DRAFT AND DEADWEIGHT

MARK (IN FW)	DRAFT		DEADWEIGHT	
	Meters	Feet	Tonnes	LT
Summer	9.324	30' 7-1/8"	37,105	36,521
Midsummer	9.556	31' 4-1/14"	38,229	37,696
Intermediate	8,975	29' 5-1/4"	35,311	34,755
Winter	8.8	28' 10"	33,343	32,816
Seaway	8.08	26' 6"	30,708	30,223

HOLD CAPACITIES

COMPARTEMENT	Cubic Meters	Cubic Feet
Hold # 1	7,311	258,185.5
Hold # 2	8,331	294,206.5
Hold # 3	8,331	294,206.5
Hold # 4	8,331	294,206.5
Hold # 5	7,902	279,056.5
Net Hold Capacity	40,206	1,419,861.5

PRINCIPAL DIMENSIONS

DESCRIPTION	Meters	Feet
Length Overall	225.5	739' 10"
Length B.P.	222.60	730' 4"
Breadth	23.76	77' 11"
Depth	14.75	48' 5"

TPC AND TPI (AT SEAWAY DRAFT)

TPC (t/cm)	51.35
TPI (t/in)	128.38

HATCH DIMENSIONS

LENGTH		WIDTH	
Meters	Feet	Meters	Feet
3.35	10' 99"	16.46	54'