

M.V. NORTHERN LIGHT



Principal Particulars

Name : Northern Light
Flag : Norwegian
Homeport : Egersund
Built : May, 2015
Call Sign : LAVI7
MMSI Number : 257972000
IMO Number : 9744051
Class : DNV GL
Type : Ultramax / Dolphin 64, Geared, Self-Trimming single deck Bulk Carrier, Strengthened for Heavy Cargoes Holds 2 + 4 can be Left Empty.
Full Class Notation : 1A1, Bulk Carrier, ESP, CSR, BC-A-DG-BEO Recyclable BWM-T and E (S+F), Grab (20), COAT-PSPC (B), BIS Holds (2,4) may be left empty TMON.
Length Overall : 199.90m
Length between Perpendiculars : 194.80m
Beam : 32.26m
Depth Moulded : 18.50m
Holds / Hatches : 5 / 5
TPC @ Summer Draft : 62.30
FWA @ Summer Draft : 302mm
Summer Freeboard : 5.228m
Distance Keel to Top of Mast : 48.57m
Constant Excluding Fresh Water : 250mt
Deadweight - Summer : 63242.10mt on 13.294m / TPC 62.30
 Winter : 61480.80mt on 13.017m / TPC 62.23
 Fresh : 63242.10mt on 13.596m / TPC 62.35
 Tropical : 64939.30mt on 13.571m / TPC 62.34
 Tropical Fresh : 64939.30mt on 13.873m / TPC 62.39
Summer Displacement : 75197.10mt
Lightship : 11917.63mt
Gross Tonnage : 36321
Net Tonnage : 21598
Suez Gross /Net Tonnage : 37261.88 / 33455.34
Panama Gross / Net Tonnage :
Grain / Bale Capacity : 78750.75 / 73680
Individual Hold Cubics :
 Hold Grain(m3) Bale(m3)
 1 13957.79 13200
 2 17658.30 16650
 3 15352.99 14080
 4 15839.60 15000
 5 15942.07 14750
 Total 78750.75 73680
Type of Hatch Covers : TTS, Transverse Folding Hatch Cover
Bulkheads : A60
Hatch Dimensions : Hatch Length (m) Breadth (m) Strength (tm2)

1	19.68	18.26	1.4
2	22.96	18.26	1.4
3	22.96	18.26	1.4
4	22.96	18.26	1.4
5	22.96	18.26	1.4

Hold Dimensions	: Hold	Length (m)	Fwd (m)	Aft (m)	Strength (tm2)
	1	27.06	14.670	23.824	25
	2	33.62	23.824	23.824	20
	3	26.24	23.824	23.824	25
	4	28.70	23.824	23.824	20
	5	31.50	23.824	7.103	25

Hold Overhang Distances	: Hold	Fwd (m)	Aft (m)
	1	5.00	4.50
	2	4.75	5.50
	3	4.25	4.25
	4	4.25	4.25
	5	5.00	4.75

Max Permissible Load per Hold	: Hold	Homogeneous	Alternate	m2
	1	10970	19245	577.22
	2	13841		800.96
	3	12135	21290	625.15
	4	12526		683.75
	5	12603	22113	539.18

Main Deck Strength : 3.5 t/m2

Distance From	: Waterline to Top of Hatch Coaming	50% Bunkers		
	Hold	No Ballast	Light Ballast	Heavy Ballast
	1	20.03m	16.03m	13.10m
	2	19.40m	15.56m	12.90m
	3	18.40m	14.99m	11.92m
	4	17.30m	14.50m	12.00m
	5	17.10m	14.26m	11.06m

Distance From	: Waterline to Highest Point			
	Light Ballast	Heavy Ballast	Laden	
	41.72m	39.37m	35.27m	

Distance From Tanktop To	: Hold	Underside Hatch Cover	Underside Weatherdeck
	1	19.30m	16.90m
	2	19.30m	16.90m
	3	19.00m	16.90m
	4	19.00m	16.90m
	5	19.00m	16.90m

Distance From Deck To	: Hold	Top of Hatch Cover
	1	3.15m
	2	3.15m
	3	2.85m
	4	2.85m
	5	2.85m

Cement Holes : 2 on each hatch cover, 1 Port Side Fwd, 1 Stbd Side Aft
Diameter : 70cm
Location : Fwd Hole 4.1m from Port Side Edge of Cover and 2.3m from Fwd Edge of Cover. Aft Hole 4.1m from Stbd Side Edge of

Engine : Cover and 2.3m from Aft Edge of Cover.
 : DOOSAN MAN B&W 5S60ME-C8.2,8050KW @ 89 R/MIN
 CSR (85% CMCR) 6842.5KW @ 84.3 R/MIN
 IFO Capacity Total : 1973.28 CBM
 HSFO Capacity : 1973.28 CBM
 FSIFO Capacity : N/A
 MDO / LSMGO Capacity : 98.94 CBM / 117.16 CBM
 Total Fresh Water Capacity : 518.23 CBM
 Total Ballast Capacity - Light : 17702.27 CBM
 Heavy : 33055.26 CBM
 Hold 3 : 15352.00 CBM
 Ballast and Deballasting Time : 1800mt per Hour
 CO2 Fitted : Yes

Tank Capacities

IFO 380CST RMG 380. Max Sulphur 3.5%, ISO 8217: 2010 Specs. (100%)
 No. 1 HSFO Tank Port : 470.12 CBM
 No. 1 HSFO Tank Stbd : 470.12 CBM
 No. 2 HSFO Tank Port : 516.52 CBM
 No. 2 HSFO Tank Stbd : 516.52 CBM
 MGO DMA, Max Sulphur 0.1%, ISO 8217: 2010 Specs (100%)
 MDO Tank : 98.94 CBM
 LSMGO Storage Tank : 117.16 CBM
 Vessel can only accommodate 85% Bunkers in each tank.

Vessel's Communication Details:

Telephone : +870 773930642 (Bridge / Masters Cabin)
 Fax : +870 783255322 (Bridge)
 VSat Norway Telephone : +47 239 62432 (Master Cabin)
 VSat Norway Telephone : +47 239 62431 (Bridge)
 VSat Hong Kong Telephone : +852 5808 5196
 Sat - C Telex : 425797210 (Bridge)
 Sat - C Telex : 425797211 (Bridge)
 E-mail : master@northernlight.amosconnect.com

Gear:

Cranes : 4 x 36mt Mitsubishi Electro-Hydraulic Single Deck Cranes
 Position : Between Hatch No. 1 & 2, 2 & 3, 3 & 4 and 4 & 5
 Maximum Working Radius : 30m
 Max Outreach from Ships Rail : 13.87m
 Cycle Time with Maximum Cargo: 2Min 12Sec
 Slewing Speed : 0.45 RPM
 Luffing Speed : 58 Seconds
 Hoisting speed (Maximum Load) : 16m / Minute
 SWL of Cranes in Hook Mode : 35mt
 SWL of Cranes in Grab Mode : 27.88mt
 Grabs : 4 x 15m³ Smag Peiner Electro-Hydraulic Grabs
 Weight of Grabs : 9.380mt
 Maximum Cargo Density : 2.8t/m³
 Filling Volumes with kick Plates : Volume (m³) Density t/m³ SWL (mt)

	15.00	1.20	18.00
	12.50	1.45	18.13
	10.00	1.85	18.50
	8.00	2.30	18.40
	6.60	2.80	14.40
Maximum Quantity Lifiable	: 18.50mt		

General:

Registered Owners	: LHS1 - Northern Light AS Nedre Bekkegt 1, Postboks 356 4370 Egersund Norway		
Owners Since	: Delivery from Yard		
Commercial Managers	: Lighthouse Maritime Ltd C/O Lighthouse Navigation Co.Ltd 87/2 All Seasons Place, Unit 4403 CRC Tower 44/F Wireless Road, Lumpinee, Pathumwan, Bangkok, 10330, Thailand Tel: +66 2 654 3100, Fax: +66 2 654 3101 Email: chartering@lighthousenavigation.com		
Technical Managers	: Fleet Management Limited 11F/ Dah Sing Financial Centre 108 Gloucester Road, Wanchai, Hong Kong Tel: + 852 2298 8345, Fax : +852 25281550 fleet-hk-tech@fleetship.com		
P N I Club	: West Of England		
H & M Underwriters	: SMA for and on behalf of ASSURANCEFORENINGEN SKULD (GJENSIDIG) - Claim leader		
H & M Insured Value	: USD 30.0 Million		

Speed and Consumption

The speed and consumption details are guaranteed at open sea basis design draft, even keel, clean bottom, under good weather conditions up to and including Beaufort scale 4 (11-16 Knots) and total combined (sea & swell) significant wave height confined to limits of Douglas sea state 3 (0.5-1.25m) with no adverse currents and no current factor, excluding when maneuvering or sailing in shallow/ restricted waters, when approaching/ entering/ leaving ports, rivers, canals etc.

LADEN	ABOUT 13.50 KNOTS ON ABOUT 28.5 MT IFO 380 CST + ABOUT 0.1 MT MDO
BALLAST	ABOUT 13.50 KNOTS ON ABOUT 25.5 MT IFO 380 CST + ABOUT 0.1 MT MDO

ECO SPEEDS (NOT WARRANTED)

LADEN	ABOUT 12.50 KNOTS ON ABOUT 23.0 MT IFO 380 CST + ABOUT 0.1 MT MDO
	ABOUT 11.00 KNOTS ON ABOUT 16.0 MT IFO 380 CST + ABOUT 0.1 MT MDO
BALLAST	ABOUT 12.50 KNOTS ON ABOUT 22.0 MT IFO 380 CST + ABOUT 0.1 MT MDO
	ABOUT 11.00 KNOTS ON ABOUT 15.0 MT IFO 380 CST + ABOUT 0.1 MT MDO

In Port Idle: About 3.2mt IFO and about 0.1mt MDO for Auxiliaries + about 1.0mt IFO for Boiler

In Port Working: About 5.0mt IFO and about 0.1mt MDO for Auxiliaries + about 1.0mt IFO for Boiler + about 1.0mt IFO when using ballast water treatment system.

Owners warrant the speed and consumption figures from time of delivery and throughout the duration of the Charter Party.

The word about in speed and consumption refers to allowance of -0.5 knots and + 5% on consumption respectively, speed is not to be debited due to favorable currents and a current factor is not to be applied to increase the C/P speed on steaming days which the vessel experienced favorable current.

Bunker saving to offset time lost.

Eco speeds and consumptions are not warranted by Owners. if Charterers elect to steam at eco speed, Owners reserve the right to speed up at least 1 hour every 24 hours.

For the purpose of evaluating vessel performance it is agreed all days where the weather exceeds Beaufort force 4 and / or Douglas sea state 3 are expressly excluded from the calculations.

Vessel burns LSMGO when maneuvering, in/out of ports, navigating in confined waters, crossing canals, rivers, straits and during poor visibility/ emergency and light running of auxiliary engines. The above are warranted for (BFF4), combined wave height <1.25m (DSS3), no adverse currents.

Vessel to have liberty of slow steaming at sea for the purpose of ballast exchange, if required. If chemicals are required to treat the ballast during exchange, then the cost of chemicals to be for charterers account.

Quality of bunkers supplied to confirm to current ISO specifications at time of supply.
IFO 380 CST: Specs., ISO 8217 2010 RMG 380, max sulphur 3.5%
MGO: Specs., ISO 8217 2010 DMA, max sulphur 1.5%
LSMGO: Specs., ISO 8217 2010 DMA, max sulphur 0.1%

Limits of Fitness

The vessel is in every way fitted for ordinary cargo service. Equipment, fittings and certificates as on board on delivery.

Any certificates, fittings and or equipment required for charterers trade in addition to the above, customary or not, to be for charterers account.

