

PRE-PURCHASE ASSESSMENT
PRELIMINARY REPORT
MV SINOTECH MARINE
(REEFER CARRIER)



IMO NO.	3333333
Port of Registry	PANAMA
Year of Built	30/04/1985
Builder Yard	APPLEDORE, UK
Classification	LLOYD'S REGISTER OF SHIPPING
Vessel State	UNLOADING FROZEN FISH
Date of Inspection	21-22 FEB 2020
Port of Inspection	KLAIPEDA
Inspection Company	SINOTECH MARINE
Inspection Type	PREPURCHASE INSPECTION
Client	CONFIDENTIAL

OMIS

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1. PREAMBLE

MV XXXXXXXXX was attended by Sinotech Marine Surveyor on 21-22 February at Klaipeda for the pre-purchase condition assessment on behalf of her potential buyer. The vessel was Vessel arrived in laden condition and berthed at General Cargo JETTY by alongside her starboard side. The starboard shipside was visible from the berth or onboard ship. At the time of inspection vessel was unloading frozen fish cargo using shore crane

Surveyor inspected No 1 and No 2 cargo holds and Forepeak, Afterpeak, No 2 C, No 4 Wing Port Ballast tank. MV Green Atlantic was manned by 16 officers and crew from East European Nationalities. Ship crew was supportive during inspection. All requested documents were produced by ship staff.

2. VESSEL DESCRIPTION

BASIC PARTICULARS

Ship Owner	ADARE CORPORATION
Ship Manager	NOFOS SHIPPING ESTONIA
Charterer	NOT KNOWN
No. of Crew & Nationality	16, RUSSIAN, UKRAINIAN, ESTONIAN, LITHUANIAN, BELARUS
Min. Safe Manning Requirement	12
Previous Name (s)	MS JOKULFELL

CLASSIFICATION

Class Notation	TWEENDECKER/CONTAINER/REEFER VESSEL -20 DEG C, ICE CLASS III
Class Period Expiry	19/07/2020
Date of Delivery	30/04/1985
Last Special Survey	20/07/2015
Last Dry-Docking Survey	24/06/2017
Dockyard (Last Docking)	TALLINN SHIPYARD
Last Bottom Inspection	24/06/2017

SPECIFICATIONS

Length Overall (LOA) in meters	93.83 m
Beam in meters	15.90 m
Depth (Molded) in meters	8.10 m

Summer Deadweight	3073 mt
GRT	3402
NRT	1574
Summer Draft in meters	5.703 M
Summer Displacement	NOT SEEN
Laden - Full speed/ consumption	9 Knots / 9.5 MT/day
Ballast - Full speed/consumption	9.5 Knots / 9 MT/day

PROPULSION & POWER PLANTS

Propulsion Engine Maker & Model	WARTSILA VASA 8 R32
MCR & NCR	3000KW@750RPM MCR
ME Cylinder Lubricator Type & Model	NOT FITTED
ME Turbocharger Model & RPM	NOT KNOWN
Propeller	CPP STONE VICKERS
No. of Diesel Generator Sets	3
D/G Maker & Model	DEUTZ BA 8 M 816
Rating (KW, RPM)	345KW @ 1500 RPM
Alternator (Maker & Model)	NOT KNOWN
Rating (KVA, Hz)	NOT KNOWN
Aux. Boiler (Maker, Model, Rating)	SPANNER SWIRLY FLO
Shaft Alternator/Turbo Alternator	MSC734A
Steering Gear (Maker & Type)	ROTARY VANE TYPE
Bow Thrusters (Nos. & Rating)	FITTED

CARGO STORAGE & HANDLING

Deck Crane (Nos. Maker, Capacity)	4 NOS /MOELVEN TYPE DK2 X 200 2 X258 16 JNF
Hatch Covers (Nos. & Maker)	MACGREGOR
Grabs (No., Maker, Capacity)	NOT FITTED
No. of Cargo Holds	8
Cargo Capacities in (Grain & Bale) m^3	4692.050 m^3 / 4678.910 m^3



CAPACITIES

Total Heavy Fuel Oil Capacity	345.23 MT
Total Diesel Oil Capacity	68.43 MT
Total Ballast Capacity in m ³	1638.6 MT
Total Fresh Water Storage Capacity in m ³	53.9 MT
Total Lube Oil Storage Capacity in m ³	8.77 MT

NAVIGATION & SAFETY

ECDIS (Nos., Maker, Model)	1 FITTED FOR TRAINING AND REFERENCE PURPOSES ONLY.
Radars (Maker, Models)	FURUNO FAR 2837S/FR 2115
VDR (Maker & Model)	FITTED
Magnetic Compass (Maker, Model)	FITTED
Gyro Compass (Maker, Model)	FITTED
MF/HF Radio (Maker, Model)	SKANTI TRP 7201
No of Lifeboats/Capacities	2/ 22 EACH
Rescue Boat /Capacity	NOT FITTED
No of Life Rafts/Capacities	2 / 36 PERSONS
Fixed FFA (Engine Room)	CO2 TOTAL FLOODING
Fixed FFA for Cargo Holds	NOT FITTED
Hyper Mist System Engine Room	NOT FITTED
Ballast Water Treatment System	NOT FITTED



3. VESSEL OVERVIEW

	ITEM	YES/ NO	COMMENT
1	Any visible major defect or damage to Hull or Machineries?	Yes	Severe Rib Caging and caving in of starboard shipside noticed
2	Is Ballast Water Treatment System Installed?	No	
3	<i>Any outstanding condition of Class or Memoranda?</i>	No	
4	<i>Whether last bottom survey was done in Dry-dock?</i>	Yes	01/06/2017
5	<i>Whether Docking survey due in next 2 years?</i>	Yes	Yes, due in July 2020
6	<i>Any major capital expenditure due in next 1 year?</i>	Yes	Yes Drydocking/ Special Survey due in July 2020
7	<i>Any PSC detention in last 5 years?</i>	No	
8	<i>Any change of ISM manager or Ship ownership in last 5 years?</i>	No	
9	<i>Any change of Classification society in last 5 years?</i>	No	
10	Whether ECDIS fitted as primary means of Navigation?	No	Paper Charts in use. One ECDIS fitted for reference only.
11	Normal Cargo Crane operation witnessed?	Yes	Shore Cranes in Use.
12	<i>Are electronic lubricators fitted for M/E Cylinder Lubrication?</i>	No	
13	<i>Excessive used spares of ME/ DG/ Cranes onboard?</i>	No	
14	<i>Is there exhaust cleaning scrubber installed?</i>	No	
15	<i>Expected Fuel Oil bunker (with Sulfur > 0.5%), as on December last 2019.</i>	No	
16	<i>Is Ship Implementation Plan for 2020 Low Sulphur compliance in place?</i>	Yes	ME using ULSFO / AE using MGO
17	<i>Any fouling of visible part of Hull external?</i>	No	
18	<i>Whether Ship operates in UMS?</i>	No	

4. VESSEL UP-GRADATION REVIEW

CODES

R: Major Repair or Up-gradation required
 M: Minor Repair or Up-gradation required
 G: No Repair or Up-gradation required

A: Moderate Repair or Up-gradation required
 E: Effective Routine Maintenance required

Sr.	Areas	R	A	M	E	G
1	External Hull	X				
2	Main Deck Plating			X		
3	Mooring Machineries			X		
4	Hydraulic Piping on Deck				X	
5	SW Pipes, Air Vents on Deck			X		
6	Accommodation block & Ventilators			X		
7	Cargo hold bulkheads and Fittings, tank tops, ladders			X		
8	Hatch Cover packing, hydraulic system			X		
9	Cargo cranes, wires, pulley & jibs			X		
10	Cargo Grabs					
11	LSA and FFA Equipment				X	
12	Ballast Tanks and Void spaces	X				
13	Main Propulsion Engine			X		
14	Diesel Generators			X		
15	Fuel Oil and Lube Oil Piping and fittings in E/R				X	
16	Sea Water Piping, Coolers, Filters in ER			X		
17	General Leakages in ER			X		
18	MARPOL Compliance				X	

5. SURVEYOR ASSESSMENT

a. HULL & STRUCTURE

Sr.	ITEM	CONCERN?	COMMENT
1	Hull External	Fair	
2	Weather Decks & Fittings	Fair	
3	Fore peak Store	Fair	
4	Mast houses & Deck Stores	Fair	
5	Forecastle Deck	Fair	
6	Poop Deck	Fair	
7	Cargo Holds	Fair	
8	Ballast Tanks & Void spaces	Poor	
9	Accommodation	Fair	
10	Bridge & Monkey Island	Fair	
11	Engine Compartment	Fair	
12	Steering Compartment	Fair	
13	Vents & Sounding Pipes	Fair	
14	Funnel & Flaps	Fair	
15	Mushroom Vents,	Fair	
16	Port holes, Ventilators	Fair	
17	Bunker Manifolds	Fair	
18	Rudder	Fair	Not seen., reported to be Fair

19	Propeller	Fair	Not seen., reported to be Fair
20	Anchors & Cables	Fair	
21	Gangways and Ladders	Fair	
22	UT Gauging	Fair	
23	UV Testing for Sealing		Not seen, reported to be satisfactory

b. MACHINERIES & EQUIPMENT

Sr. No	ITEM	CONCERN?	COMMENT
1	Navigation Equipment	Fair	Only one ECDIS fitted, Paper charts in use
2	Main Engine Plant	Fair	
3	Diesel Generators Plant	Fair	
4	Electric distribution Plant	Fair	
5	Steam Plant	Fair	
6	Piping, Valves & Heat Exchangers	Fair	
7	SW /LO/FO /FW Pumps	Fair	
8	Bilge Piping, OWS, & Sewage system	Fair	
9	Incinerator	Fair	
10	Main Engine Shafting	Fair	
11	Steering Gear	Fair	
12	Hot well, Condensers	Fair	
13	Hydraulic Power Packs	Fair	

14	Windlass & Mooring Winches	Fair	
15	Deck Cranes	Fair	
16	Hatch Cover	Fair	
17	Grab		Not fitted
18	Ballast Pumps	Fair	
19	Fixed Gas Detector	Fair	

c. FIRE SAFETY & LIFE SAVING EQUIPMENT

Sr.	ITEM	CONCERN?	COMMENT
1	Deck Firefighting	Fair	
2	Engine Room Firefighting	Fair	
3	Cargo Hold Fire firefighting	Fair	
4	Local Fire Fighting-	Fair	
5	Engine Room	Fair	
6	Lifeboats	Fair	
7	Life Rafts & MOB	Fair	
8	Emergency Fire Pump	Fair	
9	Emergency Generator /Batteries	Fair	
10	Fire station	Fair	

d. FORTHCOMING COMPLIANCES

Sr.	ITEM	CONCERN?	COMMENT
1	Ballast Water Treatment Plant		Not fitted
2	Exhaust Cleaning Scrubber		Not fitted
3	Paperless Navigation		Not
4	Low Sulphur FO/DO Tanks		Yes
5	LSFO Chillers		Not fitted
6	Alpha Cylinder Lubricators		Not fitted
7	Fin type Propeller Boss		Not fitted
8	Bridge Control -UMS Class		Not fitted
9	Use of EAL in Stern tube		Not fitted
10	Lifeboat onload release-modification		Not fitted

e. OPERATIONAL POSITION

Sr.	ITEM	DESCRIPTION
1	Dry-docking Position	Vessel was due DD/SS in July 2020
2	Condition of Class	There were no COC
3	Speed & Fuel Consumption	About 9mt ULSFO laden at 9knots ships speed
4	Class Status	Valid until 19 July 2020

F. OTHER NOTICEABLE ITEMS

Sr.	ITEM	DESCRIPTION
1	Survey Position	Valid until 19 July 2020
2	Hull	In Fair Condition
3	Engine Machinery	In Fair Condition
4	Deck Machineries	In Fair Condition
5	Cargo Machineries	In Fair Condition
6	Miscellaneous	Satisfactory

SINOTECH

6. PRELIMINARY SUMMARY

THERE IS A STATUTORY REQUIREMENT/CONCERN THAT BY 31 DECEMBER 2020, VESSEL CALLING OR TRADING IN EUROPEAN WATER MUST HAVE A VERIFIED LIST OF HAZARDOUS MATERIAL ON BOARD. THE VESSEL PRESENTLY WAS USING R22 REFRIGERANT ON BOARD AND HAD GLASS WOOL AS HOLD INSULATION ON HER SIDE/ FORWARD BULKHEADS.

THERE IS A STATUTORY REQUIREMENT/CONCERN THAT BY 19 JULY 2022, VESSEL MUST BE FITTED WITH A VERIFIED BALLAST WATER TREATMENT PLANT.

THERE IS AN IMMEDIATE STRUCTURAL CONCERN THAT AT LEAST 30% BADLY RUSTED FRAMES AND 20% BADLY RUSTED SIDE PLATES AND BULKHEADS OF ALL BALLAST TANKS BE IMMEDIATELY CROPPED AND RENEWED AS FOUND NECESSARY. TANK COATING IN POOR CONDITION BE SUITABLY UPGRADED.

THERE IS AN IMMEDIATELY STRUCTURAL CONCERN THAT THE SEVERELY CAVED AND RIB CAGED PORT/STARBOARD SHIPSIDE MOSTLY TOPSIDE BE CROPPED AND RENEWED AS DEEMED NECESSARY.

THERE IS AN IMMEDIATE OPERATIONAL CONCERN THAT THERE WAS NO SPARE MAIN ENGINE LINER OR BEARINGS SIGHTED IN THE ENGINE ROOM

THE VESSEL WAS NOT ECDIS FITTED. BOTH 380/220V EARTH LAMPS WERE SHOWING LOW INSULATION IN THE ECR.

Surveyor: Sinotech Marine
Reviewed By: Mr. Freddy Ortégano

SINOTECH MARINE

7. PHOTOGRAPHS

BOW



STERN



FORECASTLE DECK



POOP DECK



MAIN DECK PORT



MAIN DECK STBD



MAIN DECK



CRANES



CRANES



HATCH COVER TOP



CARGO HOLD FROM TOP



CARGO HOLD BULKHEAD



BRIDGE



FUNNEL & BRIDGE WING



GALLEY



BALLAST TANK INTERNAL



BALLAST TANK INTERNAL



MAIN ENGINE CYLINDER HEAD



GENERATORS



ANY MAJOR DEFECT



ANY MAJOR DEFECT



ANY MAJOR DEFECT



11. Disclaimer

Whilst every reasonable effort has been made to survey the vessel concerned in accordance with instructions, neither SINOTECH Marine Corporation (HK) LTD. nor the Inspector conducting the inspection, accept any responsibility whatsoever for failure to survey or inspect any item of hull or machinery that is not reasonable, accessible or available for inspection, or (in the case of machinery) opened up for inspection and having regard always to the condition of the vessel and its location, whether or not the machinery was seen in operation and the time available for the carrying out of the Survey.

This report is without prejudice to any stakeholder of the vessel. This report contains facts observed by the inspector and information shared by the Master/ CE/ crew of vessel. No observation (indicating apparent damage to equipment or malfunction of machinery) in this report has been investigated to ascertain the cause or extent of damage/ defect. The inspector and his employer is not responsible for any claims based on interpretation of information in this report.

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