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Date: 25-08-2016

Ref: 16-08-15



**CONDITION SURVEY REPORT**

<b>VESSEL</b>	Mfv HAVSNURP
<b>OWNERS / AGENTS</b>	GENDEV Pelagic Fishing
<b>OFFICIAL NUMBER</b>	91LB064

<b>BUILT BY</b>	
<b>YEAR OF BUILD</b>	1966
<b>FISHING METHOD</b>	Purse seine
<b>LENGTH</b>	41.38m
<b>BREADTH</b>	8.23m
<b>DEPTH</b>	4.25m
<b>TONNAGE</b>	Gross:538      Net:179
<b>NUMBER OF CREW</b>	12
<b>LAST GOVERNMENT SURVEY</b>	04/2016
<b>SURVEYED AFLOAT / SLIPPED</b>	Afloat
<b>DATE OF SURVEY / LOCATION</b>	25-08-2016
<b>CURRENT MARKET VALUE</b>	5 500 000
<b>SURVEYOR</b>	R.N.Bramwell

#### **HULL EXTERNAL**

<b><i>MATERIAL &amp; TYPE OF CONSTRUCTION</i></b>	
All steel welded construction with a raked stem and a cruiser stern. The wheelhouse is situated aft and the engine room is aft below the wheelhouse. The vessel has one mast which is rigidly fixed by two pipe stays onto the shelter deck. The main deck is enclosed by a shelterdeck and the trunkings of the 9 fish holds are raised above the shelterdeck. The purse wire winch is situated on the maindeck below the shelterdeck and the windlass is on the shelterdeck and serves the Port anchor. The vessel is fitted	

With a bow and a stern thrusters which are both hydraulically driven	
<b>CONDITION OF ANODES/EARTH PLATES</b>	
Anodes renewed at the last drydocking in April 2016	
<b>TYPE OF PROPELLER</b>	
Three bladed bronze controllable pitch	
<b>TYPE OF RUDDER</b>	
Balance type with lower pintle bush in the skeg	
<b>PROPULSION NOZZLE</b>	Not fitted
<b>SUBDIVISIONS</b>	
<b>WATERTIGHT BULKHEADS</b>	3
<b>COMMENT ON HULL AND FITTINGS</b>	
The hull has been generally well kept with the vessel dry docking on an annual basis. There is rust on the damaged portions of the working decks but there is no heavy corrosion to be seen on the hull. The underwater fittings are in good condition	

#### HULL INTERNAL

<b>DECK SHELTER TYPE &amp; CONDITION</b>	
Steel shelterdeck which runs the full length of the main deck from the wheelhouse aft to the forecastle.	
<b>FISHHOLD</b>	
The vessel has nine steel tanks which are used for carrying fish in refrigerated seawater. The fish is pumped from the net alongside the vessel via a dewatering screen mounted on top of the fish holds	
<b>Condition</b>	
The condition of the shelterdeck is good with walkways around the raised fish hold trunkings	
<b>Size of Access Hatches and Method of Securing</b>	470mm X 650mm Steel dogs
<b>HATCH MATERIAL</b>	Hinged steel hatchcovers
<b>IS HATCH WATERTIGHT</b>	Yes
<b>CONDITION OF OTHER SPACES</b>	
<b>Forecastle Area:</b>	Good
<b>Forward Work Deck:</b>	Good
<b>Aft Work Deck:</b>	N/A
<b>Side Alleyways:</b>	Good

**DECK MACHINERY**

<b>TYPE OF MAIN WINCHES</b>	
Windlass, purse winch and kaptou winch which are all hydraulically driven	
<b>LOCATION</b>	MAINDECK
Windlass on top of the shelterdeck and purse winch and kaptou winch on the maindeck	
<b>POWERBLOCK</b>	
Triplex powerblock on the starboard side which hauls the net and feeds it to the net stacker winch over the net bin. The powerblock and the net stacker winch are both hydraulically driven.	
<b>NET DRUMS</b>	
Not fitted	
<b>WINDLASS</b>	Hydraulic drive on the shelterdeck

**WHEELHOUSE**

<b>EXTERNAL NAVIGATION EQUIPMENT CONDITION</b>	Good
<b>LIFERAFTS - Type</b>	1 x CSM 20 man & 1 x SURVITEC 20 man
<b>DUE INSPECTION DATE</b>	08/2017
<b>INTERNAL WHEELHOUSE EQUIPMENT - Condition</b>	Good
<b>TOUGHENED GLASS WINDOWS FITTED</b>	Yes
<b>VISIBILITY</b>	Good forward visibility but limited aft and sides
<b>ACCESS DOOR</b>	Portside and internal to accommodation
<b>ALARMS FITTED</b>	Yes
<b>ALARMS TESTED</b>	Yes

**GALLEY**

<b>DETAILS AND CONDITION OF STOVE HEATERS AND OTHER APPLIANCES</b>	1 X 3 plate electric sove with oven in good condition
<b>ARE STOVES, HEATERS AND FLUES PROPERLY INSULATED?</b>	Yes
<b>FIRE BLANKET INSTALLED</b>	Yes

<b>ARE FUEL PIPES OF APPROPRIATE MATERIAL</b>	N/A
<b>SMOKE/GAS DETECTORS FITTED</b>	No

#### **GAS INSTALLATION**

<b>LOCATION OF CYLINDERS</b>	N/A
<b>PIPING SATISFACTORY</b>	
<b>GAS SHUT OFF VALVE FITTED</b>	
<b>GAS ALARM FITTED</b>	

#### **ACCOMMODATION SPACE/S**

<b>NUMBER OF BERTHS</b>	12
<b>EMERGENCY ESCAPE HATCH</b>	Yes
<b>SPACE DRAINAGE SATISFACTORY</b>	Yes
<b>CONDITION</b>	Good, clean and tidy

#### **MAIN MACHINERY SPACE**

<b>ENTRANCE ACCESS</b>	From the accommodation
<b>EMERGENCY ACCESS</b>	Yes
<b>LOCATION</b>	Engine room aft to main deck
<b>CONDITION OF SPACE</b>	Good , well painted and clean

#### **MAIN ENGINE**

<b>MAKE</b>	WICHMANN
<b>TYPE</b>	7ACAT
<b>YEAR</b>	1966
<b>POWER</b>	784 kW
<b>INDICATED HOURS</b>	
<b>TYPE OF COOLING?</b>	Freshwater via external coolers on the hull
<b>CONDITION OF EXHAUST LAGGING</b>	Good
<b>ENGINE HOLDING DOWN ARRANGEMENT</b>	Engine bolted to a steel frame which forms part of the vessel structure

<b>ARE HOLDING DOWN BOLTS TIGHT</b>	Yes
<b>FLEXIBLE PIPE CONDITION (Hose)</b>	Good
<b>EXPANSION JOINT CONDITION</b>	Good
<b>ANY VISIBLE LEAKS</b>	No
<b>ENGINE PROTECTION DEVICES FITTED</b>	Yes
<b>ALARMS TESTED</b>	Yes
<b>MAIN ENGINE MAINTENANCE RECORD</b>	Kept by the Engineering manager
<b>GENERAL REMARKS</b>	
The engines in the engine room are being fitted with a new alarm system which will monitor all parameters of the engines including sending all alarms and information via radio signals to the Engineering managers office	

#### **MAIN GEARBOX**

<b>MAKE</b>	WICHMANN
<b>TYPE</b>	Pitch control box with internal clutch
<b>YEAR</b>	1966
<b>CONDITION OF MAIN ENGINE / GEARBOX COUPLING</b>	Good
<b>HOLDING DOWN BOLTS</b>	Good
<b>GENERAL REMARKS</b>	
The pitch control unit and clutch are in good running condition	

#### **POWER TAKE OFF UNIT**

<b>MAKE</b>	Norgear
<b>TYPE</b>	Reduction gearbox which drives two high pressure hydraulic pumps for the Triplex net hauler, the net stacker, the fish pump and the purse winch
<b>YEAR</b>	1966
<b>CONDITION OF COUPLING</b>	
Good	
<b>DRIVEN PUMPS, GENERATORS ETC</b>	
Two hydraulic pumps for the hydraulic deck equipment	

<b>GENERAL REMARKS</b>	
All Pumps are in good working order	

### AUXILIARIES

	<b>Auxiliary Engine 1</b>	<b>Auxiliary Engine 2</b>
<b>LOCATION</b>	Port side	Starboard side
<b>MAKE</b>	CATERPILLAR	VOLVO
<b>TYPE</b>	3406	TAMD 120
<b>POWER</b>	320	250
<b>HOURS</b>		
<b>DUTIES</b>	Supplies power for the RSW compressors and pumps in forward engine room	Supplies electrical power and also drives a stand by hydraulic pump for the deck equipment
<b>MAINTENANCE RECORD</b>	Kept by the Engineering Manager	Kept by the Engineering Manager
<b>GENERAL REMARKS</b>	In good running condition	In good running condition

### STEERING GEAR

<b>TYPE</b>	A.S. TENFJORD Hydraulic rotary vane type.
<b>SPACE WATERTIGHT</b>	Yes
<b>ACCESS</b>	Via a soft patch below the net bin
<b>SPACE DRAINAGE SATISFACTORY</b>	Yes
<b>CONDITION</b>	
In good working order	

### REFRIGERATION

<b>COMPRESSORS</b>	2 x MYCOM screw compressors
<b>CONDITION</b>	Good

**FUEL TANKS**

<b>SERVICE TANK LOCATION</b>	Upper Starboard engine room
<b>SUITABLE VENTED</b>	Yes
<b>PIPEWORK MATERIAL</b>	Steel
<b>SLUDGE VALVE IN USE</b>	Yes
<b>METHOD OF GAUGING</b>	Sight glass
<b>SIGHT GLASS SUITABLY PROTECTED</b>	Yes
<b>CENTRIFUGE FITTED</b>	Yes

**BILGE AND SEA WATER SYSTEM**

<b>DETAILS OF BILGE PUMPS AVAILABLE</b>	2 x centrifugal self priming pumps
<b>LOCATION OF PUMPS</b>	Engine room forward
<b>DRIVING METHOD OF PUMPS</b>	Electric motors
<b>WORK SPACE PUMP DETAILS</b>	N/A
<b>COMMENT UPON CONDITION AND MATERIAL OF PIPEWORK AND FITTINGS</b>	All steel piping in good condition
<b>CAN MAIN SEA WATER VALVES BE SHUT REMOTELY</b>	No
<b>ARE VALVES AND STRUMS READILY ACCESSIBLE / LOCATION</b>	Yes
<b>BILGE ALARMS FITTED</b>	Yes
<b>TESTED SATISFACTORY</b>	Yes

<b>CAN BILGE ALARM FLOATS BE EASILY ACCESSED FOR TESTING</b>	Yes
<b>COMMENT UPON CONDITION OF BILGES</b>	Clean with a small amount of oily water

**ELECTRICAL SYSTEM**

<b>VOLTAGES</b>	
380/220/12	
<b>TYPE OF SYSTEM</b>	3 wire with earth
<b>LOCATION OF SWITCHBOARD</b>	Engine room aft



<b>EARTH LEAKAGE DETECTION EQUIPMENT FITTED</b>	Yes
<b>CONDITION OF SWITCHBOARD, FUSE BOXES AND WIRING</b>	Clean with no loose wiring
<b>EARTH BONDING FITTED IN ENGINE ROOM</b>	Yes
<b>NUMBER AND TYPE OF BATTERIES/LOCATION</b>	4 x 12 volt heavy duty on the monkey island above the wheelhouse
<b>GENERAL COMMENTS</b>	
Switchboards and wiring are well kept and clean	

**VESSEL FIRE FIGHTING APPARATUS**

<b>FIXED SYSTEM FITTED IN ENGINE ROOM</b>	No
<b>TYPE</b>	N/A

<b>DETAILS OF FIRE FIGHTING EQUIPMENT</b>			
<b>EXTINGUISHERS</b>		12	
<b>WHEELHOUSE</b>	<b>GALLEY</b>	<b>ACCOMMODATION</b>	<b>ENGINE ROOM</b>
2	3	4	3
<b>LAST SERVICE DATE</b>		08/2016	
<b>LOCATION OF FIRE HYDRANTS</b>		3 on main deck one in engine room	
<b>CONDITION OF EQUIPMENT</b>			
Well kept and clean			

**COMMENTS AND RECOMMENDATIONS**

**Recommendations:**

The time periods for implementation of the recommendations are indicated as follows:


Immediate	I	within 7 days
Urgent	U	within 1 month
Non-urgent	NU	within 3 months
Dry-dock	D	at the next scheduled dry-docking or first opportunity.

U Provide Main engine and Auxiliary engine running hours  
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**Conclusions:**

The vessel is old but well maintained and still has at least another 10 years of useful service as a purse seiner in her.

Issued this day 28<sup>th</sup> day of August 2016 in Walvis Bay without prejudice and subject to our standard terms and conditions



R.N.Bramwell-Surveyor