



MARINE SURVEYORS of SOUTHEAST ALASKA

Richard W. Martin

P.O. Box 2124 Wrangell, AK 99929

Office phone (907) 874-4548 Cell (907) 470-4548

rick@marinesurveyorsofsoutheastalaska.com



National Association of Marine Surveyors - Certified Marine Surveyor - No. 102-911

Authorized Fishing Vessel Surveyor. American Boat & Yacht Council - Certified in Standards

Survey Number 2105069

Name or Number:	<u>HIGH VELOCITY</u>		Date of Survey:	<u>December 3, 2010</u>	
Type:	<u>Aluminum landing craft</u>		Owner:	<u></u>	
Official No.:	<u>AK 1491 AA</u>	Rig:	<u>Twin outboard motors</u>		
Type of Service:	<u>Commercial hand troller</u>				
Length Overall:	<u>31'</u>	Beam:	<u>11'</u>	Draft:	<u>2' 6"</u>
Hull ID Number:	<u>MDR00002K102</u>				
Builder(s):	<u>OW Enterprises</u>				
Place built:	<u>Petersburg, Alaska</u>	Year:	<u>2002</u>		
Rebuilders:	<u>None reported</u>		Year:	<u>***</u>	
Rebuilt:	<u>***</u>				
Stability Cert.:	<u>Not required</u>				
Requested By:	<u>Condition & Valuation</u>				
Purpose:	<u>Condition & Valuation</u>				
Address:	<u></u>				
Phone(s):	<u></u>				
Email:	<u></u>				
Location:	<u></u>				
Attending:	<u></u>				
Cruise Speed:	<u>Reported 26</u>	Knots	Cruise Range:	<u>220</u>	Nautical Miles
Fuel Burned:	<u>Reported 18</u>	Gallons per Hour	<u></u>		

HULL STRUCTURE

Material-Color 5086 H32 1/4" bottom plating, 3/16" sides. Bare aluminum

Framing 3/8" X 2" flat bar bilge stringers on varying centers. There are four 3/16" full height longitudinals between the hull & deck

Decks Reported 3/16". A Freeman hatch is set into the foredeck

Bulkheads 10 watertight Guards Twin 2" boxed aluminum

Railings 1" pipe railings along the side decks

Motor Mount The engines are bolted to a 9' X 31" hollow pod on the transom

DECK LAYOUT

Deck House 1/8" aluminum with blue striping. The cabin is set behind the 15' 4" X 9' 2" foredeck. The cabin measures 8 1/2' X 6 1/2'. There is 6 1/2' of head room. A 2 person dinette to port will convert to a single berth. The galley & helm are to starboard. The helmsman has a air ride truck seat.

Foredeck The 71 1/2" bow door is raised & lowered with a 12 VDC winch. There are 6 tiedowns set into the foredeck.

LIFESAVING EQUIPMENT

Survival Craft Six man Revere inflatable Coastal pack

Survival Suits Two seen Ring Buoy 30" with a throw line

Flare Kit Inshore kit with a July, 2013 expiration date

Horn or Whistle Hand held gas powered fog horn

DECK OUTFITTING

Anchor & Rod 3 lb. Bruce with 2 fathoms of 5/16" chain & 50 fathoms of lifeline

Nav. Lights Tested. All found to be operable

Davit A 6' X 2" davit has a AMS 12 VDC pot puller with a 8" sheave

Other A ladder folds down from the cabin top to allow access

ELECTRONICS

Compass 2" Ritchie spherical

Radios Raytheon model 201 VHF radio

Telephone Hard wired cradle & antenna for a cell phone

Radar Furuno model 1715

Plotters Garmin model 182

Depthfinders Furuno model 600L

TANKAGE

Fuel Tanks One aluminum

Capacity Reported 186 Gallons Vented Overboard

Locations One the centerline, under the cabin and under the foredeck

Fuel Lines Neoprene hose

Fresh water Reported 14 Gallons Location Port side

Other Tanks None seen

BATTERIES

Volts 12 No. 2 Odyssey Use All DC loads

Volts No. Use

Battery switch One Trays Yes Vented Cover(s) Yes

ELECTRICAL

Switchboard DC panel at the helm station

Blowers Not required for boats with outboard power

Additional: A Mercury "Automatic Power Source" provides power to the "Smart Craft" motor controls

MAIN ENGINE(S)

No.	<u>2</u>	Make	<u>Mercury</u>	Type	<u>Hydraulic</u>		
Model	<u>Verados</u>	Horsepower	<u>225</u>	Controls	<u>Mercury "Smart Craft" electric</u>		
Age	<u>2005</u>	Start	<u>12 volt</u>	Fuel	<u>Gas</u>	Auto Pilot	<u>None</u>
Aspirated	<u>Supercharged</u>					Trim Tabs	<u>16" X 10" Bennett electro/hydraulic</u>
Attached units	<u>Alternators. Racor model 500FGSS primary fuel filters</u>						
Hourmeters	<u>Port</u>	<u>Reported 1900</u>	<u>Starboard</u>	<u>Reported 1900</u>			
Propellers	<u>Three blade stainless steel</u>						
Serial Numbers	<u>Port</u>	<u>1B152005CXL</u>	<u>Starboard</u>	<u>1B152306XL</u>	Hull Fittings	<u>One aluminum stand pipe</u>	
					Valves	<u>Marelon ball valve</u>	

TROLLING MOTOR

Make	<u>None</u>	Model	<u></u>	Model	<u></u>
Horsepower	<u>Age</u>	Start	<u></u>	Size	<u></u>
Steering		Serial No.	<u></u>	Model	<u></u>
Motor mount				Size	<u></u>

FIRE EXTINGUISHERS

Location	<u>Helm station</u>	Charged?	<u>Yes</u>	Type	<u>2 lb. Dry Chem</u>
Location	<u>Galley</u>	Charged?	<u>Yes</u>	Type	<u>2 lb. Dry Chem</u>

SEE ATTACHED NARRATIVE

STEERING

Type	<u>Hydraulic</u>
Controls	<u>Mercury "Smart Craft" electric</u>
Auto Pilot	<u>None</u>
Trim Tabs	<u>16" X 10" Bennett electro/hydraulic</u>

HULL CONNECTIONS

Hull Fittings	<u>One aluminum stand pipe</u>
Valves	<u>Marelon ball valve</u>

PUMPS

Rule	<u>2000 GPH</u>	Type	<u>Submersible</u>	Drive	<u>12 VDC</u>
Use	<u>Flojet</u>	Type	<u>Diaphragm</u>	Drive	<u>12 VDC</u>
Use	<u>1/2" ports</u>	Use	<u>Pressurized fresh water system</u>		
Type	<u>Flojet</u>	Type	<u>Diaphragm</u>	Drive	<u>12 VDC</u>
Use	<u>1/2" ports</u>	Use	<u>Salt water deck wash pump</u>		

ADDITIONAL EQUIPMENT

2005 EZ Loader with a galvanized frame, two axles & padded bunks.

One cabin fan. Three pantographic window wipers

Placards: "Discharge of Oil", "Disposal of Garbage", "Report all Injuries" & "Emergency Instructions" all posted

Official No. AK 1491 AA

Survey No. 2105069

Estimated present value of vessel and equipment.....**\$132,500.00**Estimated value of new vessel and equipment.....**\$200,000.00**

Market values are calculated using the following resources: Review of the surveyor's personal database for comparable vessels. Review of current trade publications and websites for comparable vessels. Review of a subscription-only website to determine actual selling prices of vessels.

The quoted value is date-sensitive and may not be accurate on a date other than the survey date. It reflects observed conditions on board on the day of the survey.

Replacement values given are made after consultation with the builder of the vessel, or similar vessels. In some cases, replacement may not be possible with original construction materials.

Note: Quoted market and replacement values do include the boat trailer

COMMENTS

High Velocity was inspected December 3, 2010 while afloat in Wrangell, Alaska to determine her general condition and to cite any hazards, deficiencies or deteriorations, and to determine her present value.

She is a 2002 all aluminum landing craft. She measures 31' in length, overall, with a beam of 11. The deck house is set over 15' back from the bow door, leaving room to transport up to four ATV's. The cabin has a small galley & helm seat to starboard. A dinette that converts to a single berth is to port. She has a 12 volt pot puller mounted on the starboard side of the foredeck. Propulsion is provided by two 225 Mercury Verado outboard motors. She is employed as a commercial hand troller and for recreational purposes.

High Velocity was built by OW Enterprises, of Petersburg, Alaska in 2002. Her motors are also 2005 models. They have each received new superchargers. Both have about 1900 operating hours.

She was surveyed afloat; no observations concerning the vessel below the waterline are included in this survey. I used an Electro-Guard 902 test instrument to determine that a freely corroding rate of 22 millivolts indicated her cathodic protection system was providing very good protection from galvanic corrosion.

The exterior from the water line up is in good, sound condition. The vessel's hull, decks and superstructure showed only minor cosmetic blemishes from normal wear and tear. No areas of stress cracking or major areas of disrepair of the aluminum were noted.

Her deck areas, cabin interior and battery compartment were found to be clean and orderly. The access hatch to the void beneath the foredeck was frozen closed and I did not view this area of the boat.

VESSEL OWNER expressed great satisfaction with ***High Velocity's*** engines, mechanical systems and vessel design. I watched his boat as she pulled away from the dock and headed out to sea. The engines started readily and the boat appeared to handle well.

All maintenance and upgrading work that I was able to inspect had been professionally done and has helped maintain the life and value of this vessel.

VESSEL OWNER is stated he has 42 years of experience as a vessel operator in Southeast Alaska.

It is the captain's responsibility that all required placards be posted: safety equipment and vessel regulations required by the Coast Guard must be maintained on board the vessel at all times, when in operation.

FINDINGS & RECOMMENDATIONS

RECOMMENDATIONS: Required to comply with U.S.C.G. regulations for uninspected fishing vessels and/or to correct an issue regarding the safety of the vessel and crew.

1. Found: None noted
Recommendation:

RECOMMENDATIONS: Items requiring attention/servicing. Not to be considered as a priority listing.

1. Found: Marelon in-line sea valve serving the deck wash pump was frozen in the open position
Recommendation:
2. Found: The owner stated his batteries were dead after leaving the boat for a month
Recommendation: Turn off the rotary battery switch when not on board the vessel.

NOTE:

The purpose of the survey was to ascertain the overall condition of the vessel and to verify safety, navigation and other required equipment were present at the time of the survey. One market value and one replacement value are included in this report.

Aboard the vessel, any and all accessible areas were inspected: except for the purpose of this survey, no fixed joiner work or interior ceiling was removed, no disassembly was done of engines or equipment, areas under engines and tanks were not sighted. The inspection of the engine or engines, machinery, tankage, electrical and other equipment was limited to what could be observed and the internal condition was not determined. The hull, engine, fuel system, plumbing systems and related equipment were inspected for leaks and conditions. Standard and Recommended practices for small craft set by the American Boat & Yacht Council were followed during the vessel inspection when appropriate.

I have received professional training in the use of a Cygnus 3 Data Logger Multiple Echo Ultrasonic Thickness Gauge and I perform audio gauging of steel and aluminum vessels upon request.

This report is submitted in good faith. The statements and information contained in it are not to be construed that other unforeseen or undetected defects or damages do not exist. All findings reflect conditions observed at the time of the survey. The surveyor reserves the right to amend or extend this report upon receipt of additional relevant information.

The above report is a statement of opinion made, signed and submitted without prejudice

Richard W. Martin
National Association of Marine Surveyors – Certified Marine Surveyor No. 102-911
December 3, 2010