

Associated Marine Surveying Co., Inc.

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REPORT OF SURVEY – COMMERCIAL VESSEL

Vessel Name: F/V "PACIFIC RIM" Registry: OR 126 YH

File No.: CV 1622

Date: Tuesday, May 18, 2016

Name of Vessel: F/V "Pacific Rim"

Builder: Ron Pearson Boat Works

Where Built: Delta, B.C., Canada

Year Built: 1973

Hailing Port: Florence, Oregon, USA

At the Request of: Mr. Marlin J. Thome

Address: 4141 Clem Rd., Unit 27, Blodgett, OR 97326

Purpose of Survey - Condition and Valuation

Owner: Mr. Marlin J. Thome **Address:** As Above **Telephone:**

State Registry Number: OR 126 YH **Gross Tons:** 14.64 **Net Tons:** 9.96

Note: Gross and Net Tons under Admeasure Certification – 3 Net Tons (Canada)

Hull Number: 7

Reported Length O.A. 43' 03"

IMO Number: None Noted

Documented Length OA: 43.3' **Breadth:** 12.1' **Depth:** 4.8'

Type of Vessel: Displacement Hull – Troller **Use:** Commercial Fishery

Survey made at: Reedsport Machine and Foundry, Inc., Winchester Bay, Oregon

While vessel was: Hauled from the water, set upon keel blocks and braced with hull stands at subject facility.

Captain's experience: Extensive - 20+ Years

Would this vessel be a good fire and marine risk ?: Yes

Fair Market Value - \$ 85,000.00

Replacement Value - \$ 235,000.00

General Description of Vessel: The F/V "Pacific Rim" is a displacement hull-fishing vessel constructed of wood timbers and planks. The vessel is powered by a Gardner 6-cylinder engine. The marine reduction gear is a Capitol HE 11200. Forward and below deck is the forward cabin fitted with upper and lower berths, and storage. To the portside below is fitted with a marine toilet, sink and shower. A companion ladder leads up to the pilothouse. Aft is a bulkhead and thence aft the engine room. The engine room is fitted with fuel tanks, the main engine, hydraulic and water pumps, and the reduction gear. Thence aft is the cargo hold (fish hold). Aft is a bulkhead fitted with an auxiliary engine and Blast Freezer, Transicold 05G Compressor (Presently not working). Thence aft is fitted with the steering gear and gaffing hatch. On deck and forward is the ground tackle and hydraulic winch. Aft is the pilothouse. The pilothouse is fitted with the helm forward. The helm station is fitted with engine controls and gauges, steering controls, navigational electronics, and communications gear. Aft of helm station is the galley to portside fitted with Dickinson stove, microwave and sink, to starboard and under helm seat is fitted with batteries, thence a refrigerator and a dining table fitted with bench seating. Aft is a bulkhead fitted with a companionway door to the after deck. Sighted to starboard is a second steering station fitted with a wheel and controls. The after deck is fitted with a raised hatch coaming and doors leading to the cargo hold. To port and starboard aft are 2 sets of triple hydraulic gurdies. Thence aft is a gaffing well. Sighted above the aft deck is fitted with an aluminum shelter over the gaffing well. And on top of the aluminum shelter is fitted with life raft and lights. The vessel is fitted with a single mast, longline hauler, lights and outriggers. The vessel is painted white with varnished guards and cap rails.

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HULL CONSTRUCTION AND DETAILS -

Material: Wood Timbers and Planking
Thickness of Hull Material: Estimated 1-1/2" Fir / Cedar Planks
 Hardwood sheathing (3/4" to 2") in way of waterline (Original ice protection).
Framing Size and Material: 1-1/2" x 2-5/8" Oak Frames on 10" Centers
Deck Beams, Size, and Material: 4" x 6" sawn timbers on 2' Centers
Decking: Estimate 5/8" Marine Grade Plywood over decking - Sealed with marine coatings
Bulkheads / Material: Marine Plywood over Frames
Locations- Aft of Fwd Cabin / Aft of Engine Room / Aft of Cargo Hold / Aft of Gen Set (Partial)
Type Bottom: Soft Chine **Keel:** Full Length **Skeg:** Yes
Type of Stem: Raked - Timber Stem **Type of Stern:** Counter
Propeller(s): 1 x 4 Blade Bornze RH Propeller - 40" Diameter x 25" Pitch - Good Condition
Propeller Shaft(s): Drive Shaft 2-1/2" / Tail Shaft 2-1/2" - Stainless
Stuffing Box: Standard **Packing Gland:** Compression - Good Condition
Struts: None **Bearings:** Cutlass - Good Condition
Propeller Protection: Keel Forward / Rudder Aft
Rudder(s): Steel - Spade and hung to Rudder Post Flange -- Bolted
Electrolysis Protection: Shaft Nut / 3 x Keel 5# / 2 x Rudder 10# / 3 x Keel Cooler 5# / 4 x 5# Ground Plate / 2 x Bow Stem 5#
Grounding Plate: Copper Sheeting - Approximately 3' x 3'
Through Hull Fittings-
Below Waterline: Bronze - Good Condition **Bonded -** Yes
Above Waterline: Bronze - Good Condition **Bonded -** Yes
Date of Last Haul-Out and Maintenance: May 2016 - Winchester Bay, Oregon

MAIN ENGINE(S) -

Location: Engine Room - Mid Vessel
Make / Type: L. Gardner & Sons Ltd, Patricroft, England Diesel / 6 cylinder 94 H.P.
Model / Year: 6-LW20 / 1973
Serial Number(s): None Noted
How Cooled: Keel Cooler
Date of Last Overhaul: None Noted or Reported
Reduction Gear(s): Capitol Gear - Mdl: H.E. 11200 **Ratio:** Not Known
Exhaust Lines(s): Steel and Jacketed to House Stack
Flex Line at Fuel Pump: Yes
Fuel Shut-Off Valve at Fuel Pump(s): None Noted **Approved Filters:** Racor
Condition of Engine Room/Compartment Bilge: Clean and clear of debris
Engine Alarms - Oil Pressure: Yes **Water Temp.:** Yes
Oil Pollution Placard: Yes
Power Take Off(s): None noted
Machinery Guards: None required

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BILGE -

Condition of Bilge: Clean and clear of debris / Shaft alley clean and clear of debris
Electric Bilge Pumps: 4 x 12v Rule 2000 Electric Bilge Pumps Shaft alley/ Lazarette
Float Switches: 4 x Rule-a-matic Float Switches
Engine Bilge Pumps: 1 x 12v Rule 3800 Electric Bilge Pumps
Manual Bilge Pumps: Jabsco Electric Clutch Pump -- Pacer
High Bilge Water Alarm: 3 x Float Switches **Visual/Audible:** Yes

PUMPING SYSTEMS:

Hydraulic Systems:
 12 Gallon Gresen Hydraulic Pump Driven by Main Engine / Hydraulic system supported by filters and 40 Gal Steel Hydraulic Tank

Sea Chest / Water: 2" Pacer Pump to Hydraulic—Driven by Main Engine
Blast Freezer: 1 x Transicold 05G Compressor (Not operative)

FUEL TANK(S)-

Location: 2 x Engine Room / 1 x Day Tank 27 Gal. mounted Cabin Top for diesel stove
Type Fuel: Diesel **Number:** 2 **Capacity:** Est. 600 Gallons Total
Shape: Rectangular **Material:** Steel **Condition:** Good Condition
Bonded: Yes **Vented:** Yes **How Secured:** Blocked and Braced
Fill Lines: Neoprene **Location:** Deck Pipes – Mid – Port/Starboard
Would Overflow Run Overboard: Yes **Shut-Off Valves at Tanks:** Yes
Accessibility: Engine Room **Condition of Lines/Connections:** Good Condition
Additional Fuel or Flammable Carried Aboard: None Noted
Approved Containers: N/A

FRESH WATER SYSTEM -

Water Tank(s): 1 **Shape:** Square **Capacity:** Est. 200 Gallons
Condition: Good Condition **Material:** Stainless Steel
Electric Pumps: 1 x Jabsco – "Par Max" 2.8 GPH
Water Lines and Fittings: Good Condition **Accumulator Tank:** None
Hot Water Heater: Raritan 1700 series 12 Gallon/ with heat exchanger

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PILOTING / NAVIGATION / ELECTRONICS -

Steering System: Hydraulic to Wheel—Hynautics R-04 with charging valve
Additional Stations: Wheel mounted Starboard Aft of Cabin
Automatic Pilot: ComNav Commander P2 / Furuno Heading sensor **S/N:** S862553
Engine/Clutch Controls: Morse – Separate Clutch / Throttle Controls
Engine Gauges: Tachometer / Oil Pressure / Water Temp. / Volt Meter
Compass: Ritchie "Power Damp Plus Flat Card, Model: SS1002
Horn(s): Yes **Bell:** None Noted
Navigational Lights:
 Port: Good **Stbd:** Good **Stern/Mast:** Good
Radios - **FCC License No:** 0024545352 **Expires:** Renewed April 24, 2015
 VHF: Standard Horizon **Model:** Eclipse DSC+ **S/N:** L32B470019
 SSB: Furuno **Model:** FS 1503 **S/N:** None Noted
Radar: None
GPS: Furuno **Model:** Navigator GP 31 **S/N:** None Noted
Plotter: See Laptop Computer
Depth Sounder: Hondex **Model:** HE 725 **S/N:** None Noted
Watch Alarm: SeaWatch Alarm System **Model:** 1500 **S/N:**
AIS/VMS: None Noted
Computer: Laptop - Nobletec and Sea Clear II Navigation Systems
Monitor: Integral to Laptop
Sea Temperature: Si Tex **Model:** SST 110 **S/N:** None Noted
 Model: **S/N:**
 Model: **S/N:**
Rudder Angle Indicator:
Binoculars:
Searchlight: Mounted atop Pilot House – Non Electric

FIRE EXTINGUISHING EQUIPMENT -

Engine Room System: None Noted
Fire Extinguishers - Date of Inspection:

Portable Extinguisher(s)	Size	Gauged 'Green'	Location
1 x Halotron	II	Yes	Fwd Cabin Space
1 x 10# ABC – Dry Chem.	II	Yes	Mounted Aft Shelter Deck

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ELECTRICAL SYSTEMS -

Auxiliary Generator (1): Reported 6 KW **Location:** Lazarette – Aft
Model: Not Known **Serial No.:** None Found **Type Fuel:** Diesel
Powered By: Kubota 40 HP **Model:** 4 Cylinder – V 1 903 **S/N:** None Found
Wattage: Reported 6 KW **Voltage:** Unknown
Exhaust Line: Not Connected
Note: Generator unit is not on board – Not operative.

Batteries: 1 x 8D (2016) / 3 x 12v Deep Cycle (2014)/ 2 x 12v Deep Cycle (2015)
Installation: 12v and 24v DC **Installation:** Blocked and Braced
Cut-Off Switches: 2 x Perko – Heavy Duty Disconnect **Vapor Proof:** Yes
Wiring Type and Connections:
 A/C: Heavy Gauge Copper – Insulated – Good Condition
 D/C: Various Gauge Copper – Insulated – Good Condition
A/C Electrical Panel(s): Breakers – Good Condition
D/C Electrical Panel(s): In-Line Fuses and breakers – Good Condition
Battery Charger/Inverter: Xantrex "ProWatt 2000" / Pure sine wave Inverter
Shore Power Connection: None (Dock Extension Cord)

VESSEL / PERSONAL SAFETY –

(Note: The articles listed in this section are informational only and are not an approval nor an examination of the articles by an "Accepted Organization" or "Similarly Qualified Organization" as set forth in 46CFR, Part 28, Subpart A, Paragraphs 28.73 and 28.76)

Survival Suits: 1 x Adult USCG Approved Survival Suit
Personal Flotation Devices – (Life Jackets): Sighted 2 x PDF Type II
 Life Ring: 2 x 24" Throwing Rings **Heaving Line:** Yes
Visual Distress Flares:
 Handheld: 9 x Red **Expires:** July 2017
 Parachute: 3 x Red **Expires:** August 2017
 Signal Smoke: 3 x Orange **Expires:** June 2017
EPIRB: ACR GlobalFix Ipro 406 **VSL ID#:** Not Known **Expires:** Sept 2016
 Hydro-Release: Hydrofix HRU 100 **Expires:** March 2018
Life Raft: Elliott -Mk IVTO – 4 Pers – A Pack **Expires:** March 2017
 Hydro-Release: Hammar H20R **Expires:** Aug 2018
First Aid Kit: None Noted
Placards:
 Injury: Yes **Drug Use:** Yes **Emergency Instructions:** Yes

GALLEY -

Location: Starboard Side **Woodwork Protected:** Yes
Type of Stove/Oven: Dickenson "Pacific" **Type Fuel:** Diesel
Refrigerator: "Woods" – Refrigerator / Freezer **Microwave:** Magic Chef (2016)
Waste Pollutions Placard: Yes **Waste Management Plan:** Yes

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MARINE HEADS -

Location: Fwd Portside below deck
Marine Toilet/Type: Standard Marine Type
Marine Sanitation Device- Type: None Noted
Sink: Yes **Shower:** Yes

ACCOMMODATIONS-

Number of Crew Berths: 2
Number of Crew Cabins: 1
Radio(s) AM/FM: Personal Radios
Television(s): None Noted

DECK RIGGING -

Type of Rig: Single Mast – Troller Rigged
Standing Rigging – Description / Condition
Wire/Nylon Ropes or Rods: Good Condition
Turnbuckles and Swages: Good Condition
Chain Plates or Pad Eyes: Good Condition
Outriggers: 2 **Construction:** Aluminum Pole **Length:** 42'
Running Rigging – Description / Condition
Wire/Nylon Ropes: Good Condition
Blocks and Sheaves: Good Condition
Shackles and Pins: Good Condition
Winches **Make and Model:**
10" Long Line Hauler Hamilton Metal and Machine Shop
Gurdies – Triples Simplex
Lighting: New 54" LED light Bar 540 Watt / 3 x Fwd Sodium flood / 2 x LED 12v for Aft Deck
Hatch Covers: Fwd Escape Hatch—Water Tight—Good Condition
Fish Hold Hatch – Good Condition
Access Covers: Good Condition
General Condition of Deck Area: Clear and free of tripping hazards.

GROUND TACKLE / MOORING LINES -

Anchor: 1 x # 6 Forjford – Estimated 100 lbs.
Anchor Chain / Line: 30' x 1/2" Galv. Chain to 130' 3/8" Galv. Chain to 400' 5/8" Samson Braid Line (2016)
Windlass/Winches: 1 x Hydraulic Winch – Free Spooling w/ Brake
Dock and Mooring Lines: Adequate – Good Condition **Fenders:** Various - Adequate

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<u>DECK FITTINGS -</u>			
Cleats:	Steel – Good Condition	Bitt(s):	None Noted
Vents:	Adequate – Good Condition	Deck Drains:	Scuppers
Bulwarks:	Wood and Aluminum (Gusseted) – Good Condition		
Handrails:	Wood Grab Rails attached to Cabin		
<u>ADDITIONAL EQUIPMENT NOT LISTED ABOVE:</u>			
Aft deck aluminum shelter with locker spaces port and starboard.			
<u>GENERAL NOTES-</u>			
Examination of the F/V "Pacific Rim" revealed the vessel to be in apparent good order and to be in sound condition.			
The vessel is surveyed and found in above average condition for its age and use.			
The F/V "Pacific Rim" appears to be well suited for its intended use as a coastal commercial fishing vessel.			

Remarks and Recommendations are noted on a separate sheet.

The above Report of Survey has been conducted with non-destructive techniques and sets forth the apparent condition of the vessel, including hull, machinery, equipment, fittings, and gear to the best of the undersigned's ability without the removal of bulkheads, paneling, ceilings, floors, or other portions of vessel structures and without the opening of vessel machinery (motors, engines, generators, gears, or pumps) for internal examination. Unless noted, all equipment to include navigational and communications was not examined for serviceability. The survey represents the undersigned's honest and unbiased opinion and the undersigned is not to be held responsible for any errors or omissions. Nor inaccuracies for items indicated as "reported to be", "said to be", "said to contain", or "not observed". It is understood by all parties concerned that the above Report of Survey is not to be considered a guarantee as to the "Fair Market Value" or "Replacement Value" as this information is based on the research of vessels of similar design, construction, location, and condition. Nor does the above Report of Survey create any liability of, guarantees to, or warranties by the company or their employees arising out of the reliance on information contained herein. The above Report of Survey is based on visual or reported data created on the date of the survey and does not construe knowledge of the condition of the vessel prior to, or subsequent to, the date of the survey.

The above survey report is hereby submitted and is rendered without prejudice TO WHOM IT MAY CONCERN.

Respectfully submitted,



Brian E. Skallerud, Marine Surveyor
 Associated Marine Surveying Co., Inc.