## **Dialing In Your Trawler**

Suggestions on how to track and monitor the gear and systems on your trawler. Tips and Ideas to make boating more fun and enjoyable

## Trawler<sub>\$</sub>Fest.

BOAT SHOW - EDUCATIONAL EXPERIENCE - RENDEZVOUS

Online Summit November 14, 2020 by Jeff Merrill © 2020 all rights reserved

## Racing sailboats led to this course

# Trawler Fest

## TrawlerFest LIVE Online Summit

November 12-14, 2020

## Pilothouse – Gauge Reference



20+ years of selling new and used trawlers and training owners. I've been on hundreds of boats and found some great ideas.

#### A collection of ideas I have seen on trawlers. Part I - Observe your boat Part II - Make boating easier.

#### Part II - Rapid fire slide show



IT'S YOUR CHOICE PURCHASING A TRAWLER TRAWLER

#### ialing-In-Your-Trawler articles Jeff Merrill has written are available



# Handout\* A list of the articles I have written for Ocean Navigator

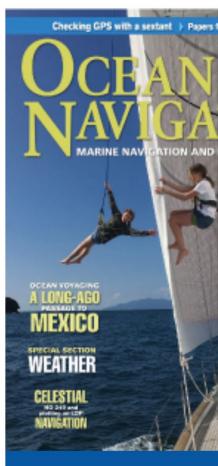


Of course, a compass

Mar/Apr 2020



Enabling your boat to talk Nov/Dec 2019



Ship's Papers

#### Expert Instruction From The Brands You Trust.

#### **Offshore Cruising: Preparing Craft & Crew**

Preparation is key to successful cruising. Regardless of the size, make or model of your boat, understanding its critical systems and having a plan is crucial to keep your craft performing efficiently and safely. Join yacht broker, boatbuilder and TrawlerFest instructor Jeff Merrill in this exclusive online course designed to help you prepare yourself, your boat and your crew to get the most out of your offshore boating adventures.







## Learn something from every boat

Every Trawler has a number of components that require attention and observation, we are all "in the same boat" Noticing details will help you monitor your systems and better understand your boat.

I will post this PowerPoint as a PDF and include the handouts on www.JMYS.com within a week.

Please type in your questions in the Q and A section and I will try to answer during this seminar

## HANDOUTS

Summary Dialing in Your Trawler articles
 USCG inspection Vessel Safety Check
 Maintenance Log - Main Engine
 SDMC / JMYS Maintenance Guideline

As a yacht broker I know that eventually you will sell your boat. You want a reliable Trawler and Buyers want maintenance records

MAINTENANCE

Weems & Plat

#### Do you keep your maintenance log up to date?

#### Your Trawler is "alive" Like your body, it make senses that regular "CHECK-UPS" will keep your boat healthier

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# Unlike annual human medical exams, a trawler should have many inspections (hourly at first) to check systems

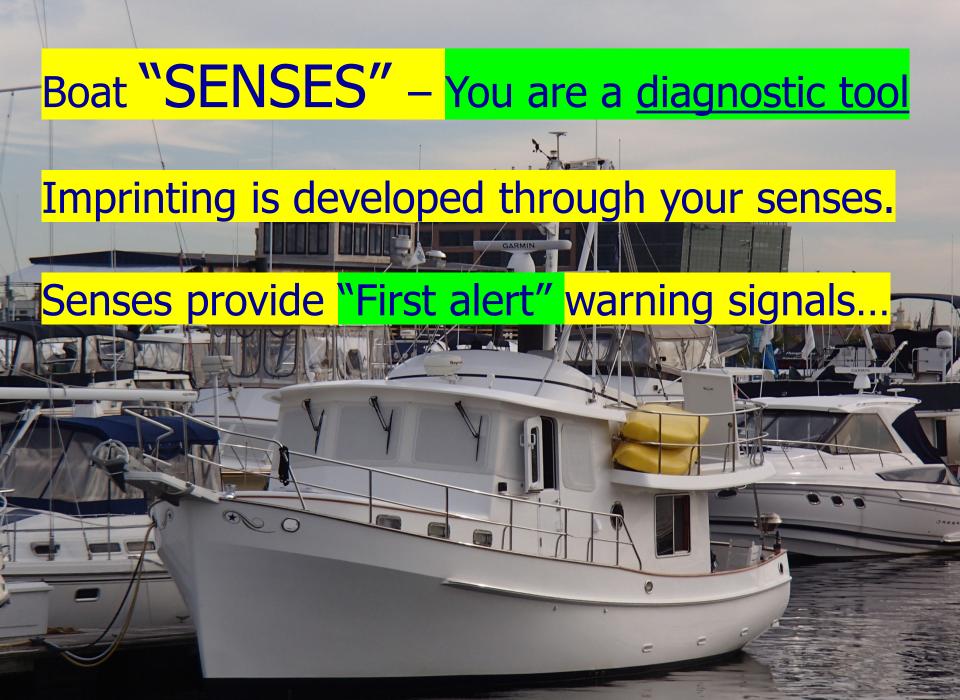


### Be observant and pay attention

## What can you do to keep track of things and make boating easier?



To track your boat you first have to establish baselines, and these initial impressions need to be cataloged so you can learn what the NORM is.



## Sight/Vision

Keen an eye on things...
Visual observation is the most common way to notice if something is amiss.

## **Hearing/Sound**

New noises to identify: Pumps, Beeps, Clicks, Alarms Vibrations (normal and OK) High pitch whine (laundry) Wear ear muffs in the engine room

Do you hear that "Buzzing" outside?



## Smell

Burning?

- Smelly or stinky?
- Something unusual?

 A change in what the "normal" smell is can be an early warning sign of something amiss...

#### Touch (and what not to touch)

Machinery hot parts – be careful of burns

Gloves – anchoring and handling dock lines (wood dock splinters)

Shoes on deck: hatch dogs, sure footing, around windlass, anchor and chain

#### Taste (let's call this "non-sense")

#### Don't use this sense except for food consumption.

Story: Surveyor who dipped finger in bilge and became ill.

## Common Sense

 You typically have time to think through a good solution, don't rush to judgement

## 5-year expiration...

RD. COMPANY STREET,

#### GET YOUR TRAWLER ON TRACK

Let's see what other trawler owners do to stay on top of things.

#### Machinery with temperatures to monitor and many reminders or quick reference ideas.

The more familiar you are with your boat the more you learn what to look for and become aware if something changes

#### Find and remember...

. 9.

Locate where things are installed

#### Anti siphon vents?

#### Where is your autopilot rate gain compass?



How about your GFCI outlets and shore power breakers?

#### Temperatures to monitor

2121

#### What other temperatures should you record?

- Stuffing box
- Engine coolant
- ER forward and aft bulkhead

## Analog "needle marks"

LI''2000

-1000

11111

3000

4000

nsi

2.00

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III.

## Mark normal needle position. Do you have a bicycle pump?

#### MODEL No's. R-06, R-07, R-12

Seeing Fluid (HA5430) or a light viscosity hydraulic staft hydraulic fluid spec. MIL H-5606C, such as len Fluid att Rep Huid #41, Esso Univis N15, Chevron Aviation Heavier Fluids such as automatic transmission may be added but will cause harder steering. **IIMUM RESERVOIR LEVEN** 

SCUDE .

## Example of "tide mark" level



## Learn the "INS"...





## Get a Label Maker and use it!



## **Bow Thruster ON/OFF**



#### Routines

Develop a "return to the boat" routine that is the same each time, here is a quick run through of what I do.

## At The Dock

Let's start by approaching your trawler tied up at the dock. What should you look for?

Shore tower breaker still ON? Shore power cord plugged IN? In the water? Dock lines secure? Any chafing on lines? Fenders properly positioned?

#### **On Board**

Can you be contacted in an emergency? Do you have a key for access to the boat?

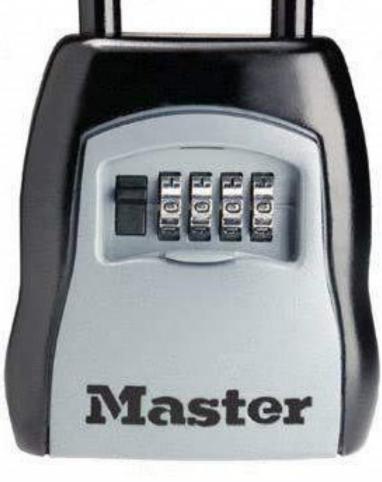
### **Emergency Contact Information**

M/V Convexity USCG #1186437 IN CASE OF EMERGENCY CALL OR TEXT 415-420-8800

## Is your lazarette hatch lockable?



## Combination lock box for key



#### Shoes off basket

S. 9/10.

please remove.

r shoes

## **Inside- My First Two Priorities**

#### Electrical – Do I have shore power coming in and are my batteries charged?

## Bilge – How much water do I have in the bilge?



## AC IN = Good!

Ship Shape Keeping things clean and tidy makes it easier to notice when something goes wrong

## **USCG Vessel Safety Check**

Handout\* This is a great way to make sure you are in compliance



## There are several areas where you can



## Anchoring Ideas



Chain marking (HundRED)

Bitter end – line, cut away on deck

1



#### Hund-RED's



#### Color code summary right by windlass



## Anchor Bridle

## Load off windlass. Rubber snubbers and line soften shock



## Stop Slop

#### Chain tensioner, snug anchor on roller

#### Spare Fortress anchor on foredeck

(D FORTRESS

6

#### Spare Fortress anchor on swim platform

() FORTRESS

#### Chain color coding by windlass control



GENS

E

#### WESMAR BOW THRUSTER



#### Last 50' feet or anchor at waterline.

#### Can you disconnect from bitter end?



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WATER WITCH BILGE COUNTER

#### Folding pad eye for clipping on fenders



# Rig hois lifting d Mark your fins for haul out STABILIZER FIN

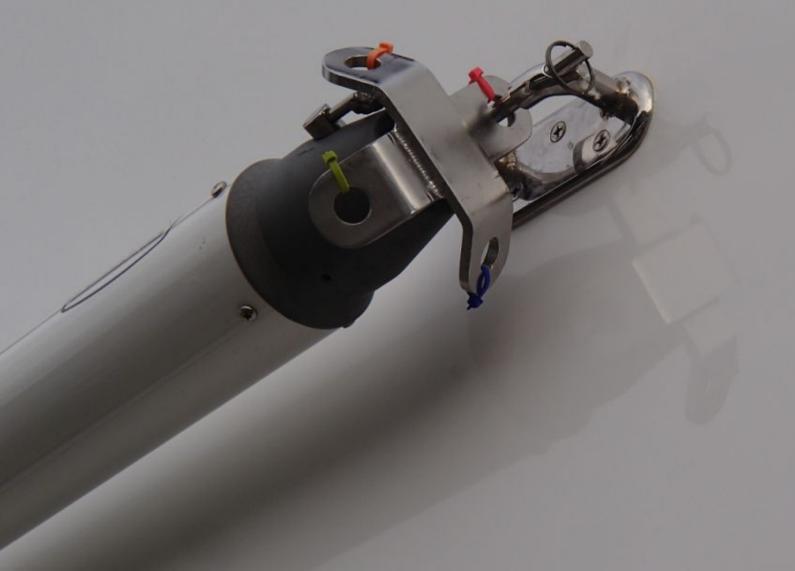
## Deck and Dinghy Tips

#### Secure outside deck lockers





#### Flopper stopper – color code line attachments



#### **Reflective tape on flopper pole**

Brithum

#### Dinghy launch with crane – level gauge



-

#### Mark crane pick up to simplify line-up at return

## Boom winch lines can be marked with a Sharpie – Amsteel or Dyneema

MECH CIVEZ WILL

IAIAT2UONI

## Outboard skid plate

# **Docking Tips**

- Dock lines color code red/green
- Extra lines and chafe protection
- Surge areas chain on cleats
- Fenders clips on hull, fender boards
  Inflatable fenders (need air pressure)
  Fender hooks
  Shore power connections secure?

#### Color markings or numbering of dock lines

Dock Lines Short – White whipping Medium – Red whipping Long – Black whipping

# Fender Boards

AMAR

## **Boat Hook Ready!**

R

#### Shore Water: Filter Before Adding To Tanks

#### Hardware store cartridges sediment removal, charcoal – remove impurities

# Water softener

SOUNS

DO NOT

#### Main Engine Maintenance Log Handout - Nordhavn 55\*

This example is for a main engine. I recommend you create an individual log for all major pieces of machinery: Transmissions, Generator, Windlass, Crane, Watermaker, Stabilizers, etc.

# Maintenance Log - Records

Note all purchases and upgrades Track oil changes and all service repairs

This is an important record and sales tool when you are ready to sell your boat



# Steve D'Antonio and Jeff Merrill Maintenance List



# Trawler Fest

# TrawlerFest LIVE Online Summit

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### I hope you will say...

# That's a good idea!

#### Clear plastic protects wood surfaces

#### Refrigerator organization – bars and tubs



#### Thermometer and baking soda in refrigerator

**Nutrition Facts** 

**d**a

Brand

#### Story - leave boat, ice cube test...

20 -20 -10 0

5924 TAYLOR.

#### Shelf levels create more storage space



#### Soft rubber mesh protects

#### Peg system for plates and bowls

#### Kadey-Krogen peg system for

#### pots and pans







#### Organized home style drawer caddy



# Clear tubs for storage



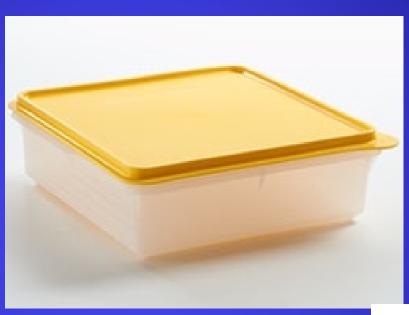
#### Storage bins "Lock and Lock"

# **Really Useful Boxes**





# LOOSE Parts Bin (you'll identify where it goes later)









#### Dust buster small vacuum

#### (Kelp flies story)

#### Swiffer Sweeper Vacs are great for wood floors



# Squeegee and Shower Spray







# **Pilothouse Suggestions**

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# VHF call sign label





er

#### Keep your display screens clean

and West Coast to Mobile Ray, Mahame



# 10 5 0° 5 10

#### LOA, Beam, Draft, Bridge clearance

LOA 61 FT BEAM 17 FT DRAFT 6 FT HEIGTH 24 FT ANCHOR MARKS 25 FT DRAFT LOA BEAM DISPL. WATER FUEL MAST

**5.0'** 48.5' 16.75' 56,200 lbs 540 USG 1,038 USG 30' 4"

M.V. JODA

1.525 m 14.75 m 5.10 m 2,044 L 3,945 L 9.2 m

#### What depth are you reading?

FURUNO

+

BOTTOM OF KEEL TO SEA BOTTOM

Dur . . . . . . . . . .

MENU ENT DISP DIM \*

RD-30 PWR

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#### Inland, River reminders

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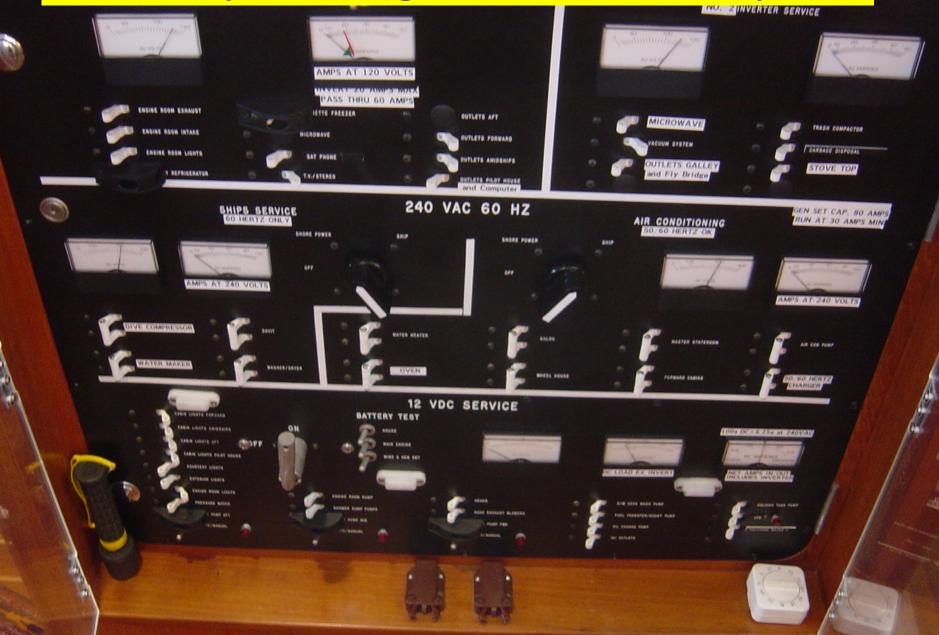
HEAD ON PORT TO PORT



OVERTAKING BOAT PUTTING SLOWER BOAT TO PORT

OVERTAKING BOAT PUTTING SLOWER BOAT TO STBD

### Detail tape to segment electrical panel

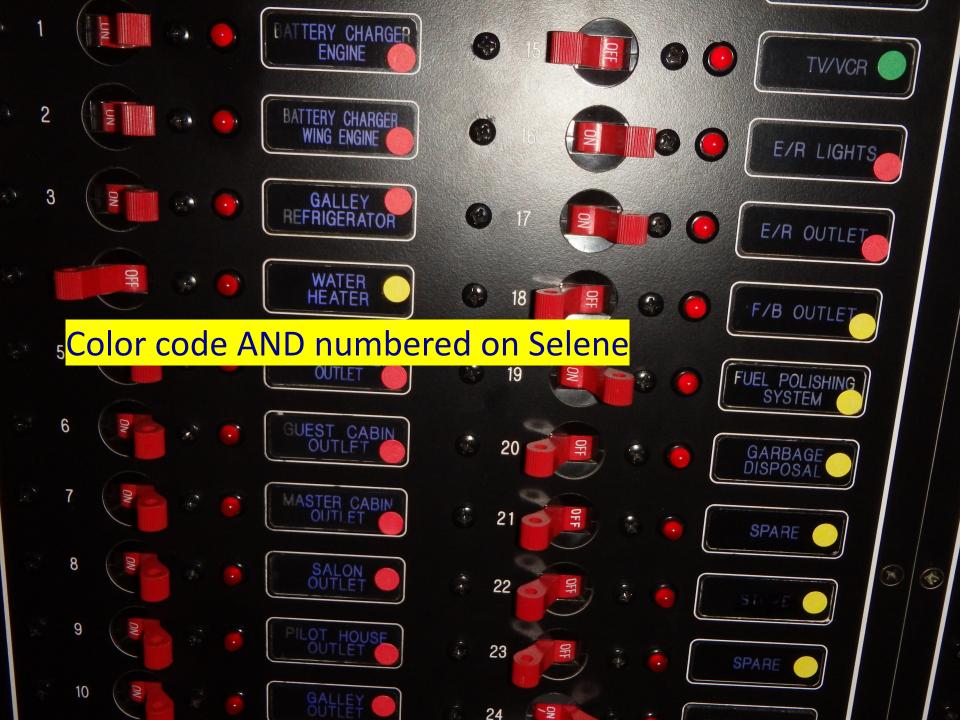




# DEPTH SO

#### Color code dots – ON/OFF – Day/Night





NE ROOM LIGHTS

TS AFT ETS PILOT HOUSE NE ROOM LIGHTS

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AMIDSHIPS

FWD

## VERTER

Toggle guards on "permanent" breakers

EXHAUST STACK COOLING P/H CHEST FREEZER SH COMPACTOR MICROWAVE / SALON TV STOVE TOP IGNITER GARBAGE DISPOSAL WATERMAKER E / ROOM BLOWERS

GALLEY FRIDGE/FREEZE





## Drink holders

Portable caddy for important "stuff"

## Channel buoy reminder

## Easily reversible!





### When you depart,

### leave yourself a reminder...

Ere Hull Closed! ater Make Start Charger - OFF



## Engine Room Inspection Tips

# **Infrared Temperature Gun**



## Temperature Watch items

AIR FILTER

"Merrillpox" blue tape and Sharpie

### Mark single point to shoot

y.

the mart and a property of the set

## **Temperature Targets**

21

35

t= Win

## Engine room inspection Temperatures / Visuals

## Hold Gun 2 – 6" away

0



American Bow Thruste

GENERAL

## Visual inspection "(\*)" Eye



## Torque wrench and mark your mounts



### SNUGGED DOWN ALL ENGINE MOUNT. 13 SEPT 13

-3/2 WRENCH.

BIONGOEd

CI-AFT

#### STBD

-

### Laminated fuel diagram by manifold



### The sharp end points to desired bowl

THER /WATER SEPARATUR

### Pointer on Racor select valve

OFF

Note it is secured

### Velcro straps so valve handle isn't bumped



### Replacements sized and hours noted



### Color code multiple tank valves

 $1 \ 1 \ 1 \ 1 \ 1 \ 1$ M TRANSFER PUMP 222222 111111 IIIIII SUPPLY FWD.PORT TO TRANSFER MANIFOLD E/R PORT FUEL TANK TBD FWD.STBD FUEL TANK TO MAIN FWD.PORT FUEL TANK GEN 2 22 UPPLY MANIFOLD SUPPLY FROM D.T. 2 DAY TANK 2 SPARE N SUPPLY SUPPLY WING ERATOR INE

2

M DAY TANK BOTTOM

### Nail polish or red Sharpie to mark Zincs

GGER

### Mark fuel filter for bleeding



# And primer lever

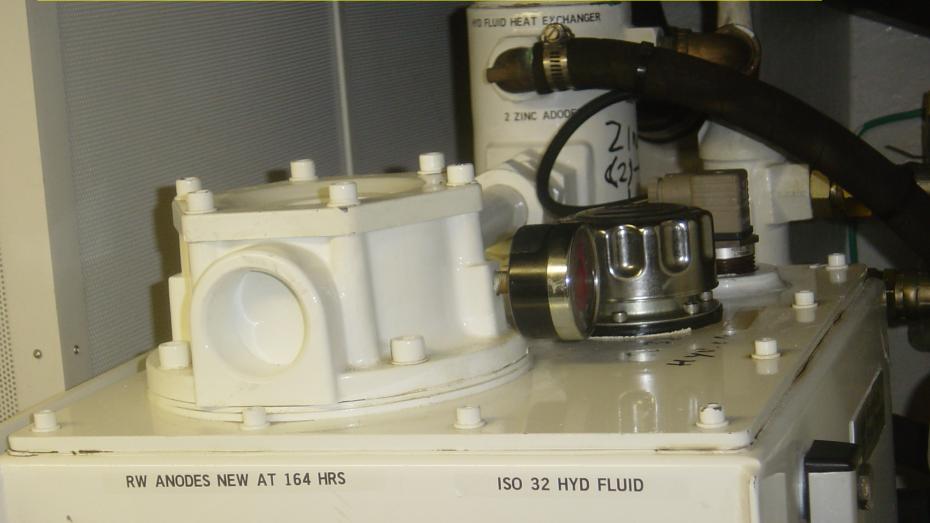
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### Potential trouble, will yours drain?

## Install a drain valve

### Anodes (pencil zincs) and hydraulic oil weight

3



### **Coolant over flow catcher**

Initial states



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(WW61) "4/E

80

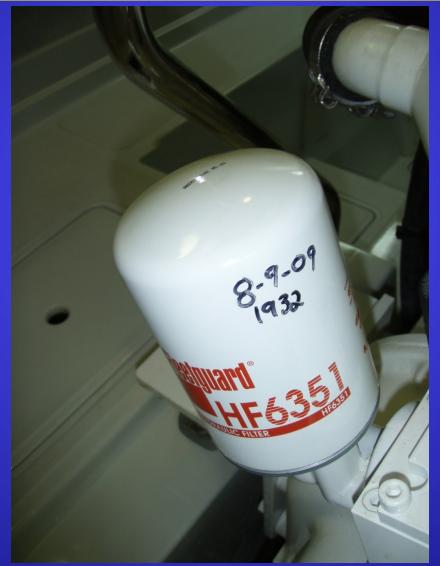
#### DELO 400 15W-40 4 GALLONS

### Brand of oil, viscosity weight and quantity. Make it easy!

STREE OFF

SEE OWNER

# Label filters to track changes



BILGE PUMP POWER SOURCE (50A FUSE)

FROM STBD. ENG. ISOLATOR TO CHARGE HOUSE BANK (60A FUSE)

-

FROM PORT ENG. ISOLATOR TO CHARGE HOUSE BANK (60A FUSE)

-4

POR

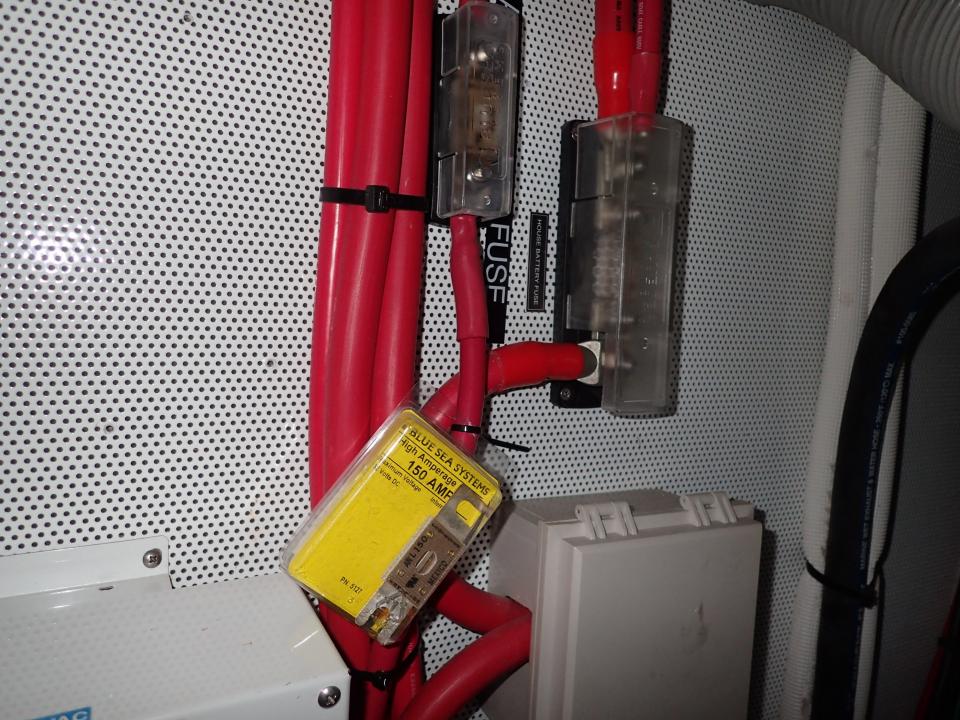
Second and

### Identify fuses, carry spares

#### Secure spare fuse near active one

O CERT 03/6000

( ◎ NOT-T 300V a.c. IR 20









## Fresh water tap and bucket

Soft mats 11 111 111 . . . . ................. ...... \*\*\*\*\* 1111 1111111111 111. 

#### Engine room temp and clothes line

ABBORD



## **Cleaning product shelf**

38859

A LOUDD DO DO DO

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Dupli

# Storage hammock

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#### Suction mesh bag for through hull bungs

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Zippered pillow bag for engine diapers

# Get out there and have fun!



# Questions? Other ideas?

PS - I am always on the hunt looking for other ideas, if you have any service of the service of

Email : Jeff@JMYS.com

## Thank you!

#### Stuart, FL TrawlerFest March 2 – 6, 2021

#### Dial-In-Your-Trawler series PDF on <a href="https://www.jmyS.co">www.jmyS.co</a>