SAN JUAN SAILING

ANNUAL PREVENTIVE MAINTENANCE SCHEDULE FOR 2015 SEASON

Responsibilities:

The Maintenance Pro (MP) will contact the Boat Owner (O) so the O can decide who does what, after which the MP will circle the "M" or the "O" by each task AND deliver the PMS to Fleet Manager (Jon Van Dyken) who will stamp the ORIGINAL of this checklist with "Official Working Copy" (in red). Then the MP will place it in the Charter Guest Reference Notebook (at the back end of the 3-ring binder). As each task is completed, the person completing the task will initial & date the "Official Working Copy" onboard the vessel.

OPTIONAL (but not recommended, so consult with your maintenance pro):

Owners may opt for haulout once each 18 months or 24 months. For 24 month haulouts, the criteria listed on the top of the Haulout Checklist must be met. This is an experiment to determine if we can reduce costs while still maintaining quality and safety. As such, this procedure is subject to immediate revocation.

IMPORTANT:

Boat Owners and their MPs are responsible to keep this "Official Working Copy" (onboard the vessel) up to date with initials & dates as they accomplish tasks.

For Charter-Ready Certification:

Vessels are eligible for charter only when 100% of the "essential" Spring tasks are completed, initialed & dated. Items

with a " to June		ire requir	ed but not "essential	!" and may be "pu	ished" beyond Char	ter Fest, but must be	accomplished prior
			tasks are complete the ertified by Rick's init				Sale for review and
Boat Na	me	:			Maintenance Pro:	:	
FAL:	<u>L 2</u>	<u>2014</u> (Complete <u>no later tha</u>	an December 31,	2014 (or earlier for	freeze damage cont	rol) all required tasks
1.			Date & Initial: ch) "dot" labels by	•	, , , , , , ,	low ("on" only whe	n needed) and red
2.	M R		Date & Initials:			tol/polyurethane to eather window and sche	
3.	m st	emoving taker to e	sails. Remove sails nsure minimum thr ard in v-berth, mak	and deliver to sa	il maker/loft for an oth main (leach) an	nd two on jib (luff).	d repair, and ask sail Pick up sails and
4.	gı	rommets,	loose or missing si	naps (male and fo	emale), strap and b	eteriorating stitching buckle failures. If ar iiled inspection and	ny issues are

good ventilation. (Recommend removing and storing all dodgers below decks.)

dodger and store onboard below decks, making sure dodger is not touching the overhead or ceilings for

5.				Lift <u>all</u> floorboards and thoroughly clean bilge of dirt, hair, crumbs, its). Consider using enzyme-action cleaners. (Vinegar/water solution build up in bilge.)
6.	witho	out pai	ith fresh water, soap ar	After thoroughly cleaning center bilge area with fresh water and ad bronze brush, dry and coat all "naked metal" keel bolts/nuts (those s) with <i>LANOCOTE</i> as a moisture barrier to inhibit "pink" pigment
7.	M Main	O tenanc	Date & Initials:ee Pro to lubricate or rej	_ Check smooth operation of the Y-valve(s). If any are stiff, notify place.
8.	M and c	oat op		Check ports and hatches for leaks. Reseal where necessary. Clean skets with talcum powder.
9.	M lifted	or ren		Ensure cabin is properly vented, heater(s) set properly, cushions pen for ventilation to prevent mildew.
10.	(if ac			Before first predicted freeze, drain fresh water tanks, scrub interior se, treat with bleach solution to prevent algae build-up. Next day,
11.	point Add 1	protect	gine, genset (if applicab tion if necessary. Test w	Before first predicted freeze, check antifreeze level and freezing le) and diesel furnace hot water cabin heat system (if applicable). ith PH test strips (bought in bulk from Owners Consumables Fund), and system and/or engine(s) as necessary.
12.		_		Before first predicted freeze, close all seacocks below waterline able) for winter months to minimize danger of seacock, pipe and hose
13.	doors		w-deck entry doors and	Before first predicted freeze, open all compartments, cupboard secure open or "tape open" (with painters tape) to assure good (from space heater and ventilators).
14.		O LUDIN	Date & Initial:IG swim step shower's	Before first predicted freeze, drain water from all faucets faucet.
15.	so so	lution ottom	igester" (follow direction reaches holding tank. To the holding tank(s).	After flushing holding tank(s) thoroughly, add prescribed amount of ons on container) into toilet and pump 20 times on wet-bowl setting this will foster bacterial growth to eliminate "fecal lard" build up in Then pump on dry-bowl setting to clear toilet of all standing water. y-bowl setting to flush solution into toilet fixture(s).
16.	(Rebi		place if necessary.) Pro	Test the electric and manual bilge pumps to ensure they pump water. tect manual pump(s) from freezing. (Check to make sure there is one switch and "hot wired" to the house bank. If not, install.)
17.	M	0	Date & Initial:	Before first predicted freeze, "pickle" watermaker (if applicable).
18.	batter			Check battery voltages (with charger "off") and, on unsealed all batteries, replace if necessary. <u>Assure all connections are tight</u> arn charger back "on".

19.	heat arcin vesse	g on prel's ele	p. Check shorepow rongs or prong hole ctrical receptacle a	Put hand on shorepower/boat connection. If warm, find source of er cord connection (male end, at dock box) for signs of black electrical es. If present, cord has a short insidereplace! If okay, lubricate prongs at and at end of cord with dielectric silicon grease and re-plug into boat and ver breaker "on" and vessel's charger breaker "on".)
20.	preve		ks (especially water	Check seals / O-rings on deck filler caps. If deteriorated, repair to into diesel tank and contamination into fresh water tanks). Make sure aps. Lubricate with NSF-approved SUPER LUBE.
21.	M <u>NOT</u>	O <u>E</u> : For		Replace raw water impeller in engine, and generator (if applicable) a diesels, replace every 200 hours.
22.		O cable)		Replace primary fuel filters (2 micron) on engine and genset (if and assure no air locks, test for proper operation and no leaks.
23.		O c powd		Check belts for tension (1/2 inch deflection) and wear (look for lts). Adjust or replace.
24.	Pick engir	up oil ne, tran	sample kit from Na smission, and gens	APA (best price). Take oil samples (old oil, before change) from main et (if applicable) and submit to testing service for analysis and recording problems to owner and SJS.
25.		o ommen		/ engine hours:If not changed for past 12 months, change oil in engine and in genset (if applicable).
26.		O ck with		/engine hours: Change transmission oil. IMPORTANT NOTE: be sure the proper transmission oil is used for individual makes/models.
27.	M	0	Date & Initial:	Check all bolts, screws, hose clamps, engine fittings for tightness.
28.		O rioratio		Check hoses for wear (i.e., chafe, cracking, swelling and general essary. Add chafe guards as necessary.
29.	with engin	oily cl ne and	oth to remove dirt	Wipe engine and mechanical components in engine compartment and grease (use degreaser if necessary). Remove any rust, spot paint f necessary for "like new" appearance. Coat engine with WD-40 or BOE
30.		o 2 per 4		At end of season, make sure fuel tanks are full. Add STANADYNE Biocide (1 oz per 40 gallons "shock", per 80 gallons maintenance).
31.	appliand, inflator of so clear	if need table, r apy wa ner/wax (. 4) St	Thoroughly wash sled, re-varnish or re- re-insert floorboard ater to find leak and x. Protect with 303	1) Remove floorboards or inflatable floor from inflatable dinghy, if and/rocks from inside hull. If wood floorboards/transom, check condition epaint each with <i>PETTIT EZ-POXY</i> paint (gray recommended). 2) If and re-inflate dinghy, verify leak-free. (If dinghy leaks air, spray bottle repair.) 3) Clean with <i>SUPER CLEAN</i> (NOT acetone) or <i>SEA POWER AEROSPACE PROTECTANT</i> or <i>ISLAND GIRL</i> protectant or <i>FLEET</i> or upside-down on dinghy cables at slip or on dinghy rack, secure for
32.	SJS	ONI	Y Date & Initial:	Take outboard to West Coast for service (at group rate).
33.		O ckpit l	Date & Initial: ocker for winter pr	Inspect BBQ and replace any worn parts, remove from rail and stow otection.

34.	M O prevent loss		Affix nylon string or wire tie to dorade vents (if applicable) to
35.		oose wires and corrosion	Remove and check exterior ignition control panel for water, spray with WD-40 or BOE SHIELD anti-corrosion spray to prevent
36.	corrosion an	nd tightness. Check all e	Remove electrical control panel. Test all electrical connections for lectrical connections for tightness/corrosion in bilge and in engine at may be close to water.
37.	uprights, ch operate smo	neck bolt tension. (If loos bothly, lubricate. Tension	Confirm all stanchions secure. If stanchions have tension bolts for se, apply <i>LOCTITE</i> and retighten.) Confirm lifeline gates and latches any cables between stanchions as required for tightness and safety. eplace when necessary). Inspect (and replace if needed) ring cotter
38.	pedestal sha applicable) To prevent	aft(s) bearings with suita with PTFE grease. Below	Lubricate steering chain and shaft(s) with PTFE grease. Grease ble lubricant. Inspect and lubricate steering quadrant sheaves (if w decks, check cables for tension and wear. Replace cables if worn. s/nuts and (if re-tensioning is indicated) apply medium-hold then tighten.
39.	M O replace, as a		Check throttle and shift controls and cables. Lubricate, adjust or ED: Pre-run spare cable(s) to engine and transmission.
40.		Date & Initial:s and ground wire attach	Lubricate and inspect anchor windlass. Check electrical ment bolt for tightness.
41.	to chain. Ti	ghten shackle pin and se	Assure that there is a shackle between anchor and swivel connector cure with seizing wire, including on shackle at chain's bitter end. els that cannot be seized; if in doubt, re-bed with blue Loctite.
42.			Inspect bulkheads, tables, galley fiddles, doors, companionway varnish sole annually.) Renew to "like new" varnished and/or oiled
43.		Date & Initial:s or needle and thread. (I	Assure "stop knots" at end of all halyard and all sheets are secured Exception: Sheet that must be removed for spinnaker.)
44.	PVC pipe w Trident) is u pipe can fol connections	wherever possible, and to used, please change hose flow the every-10-year re s. Note: Write on hose (in	Every 5 years, replace non-PVC head system waste hoses. Use p-quality thick-wall hose where necessary. If "premium" hose (e.g. replacement interval to every 10 years. (Also, any lengths of PVC eplacement interval.) Use two stainless hose clamps on all hose nside a compartment, but visible when compartment is opened) with d (00/00)" AND "change on (00/00)" (5 or 10 years hence).
45.			Every 5 years, thoroughly service the diesel cabin heater. (Follow to authorized service technician or company.

WEBASTO (use certified Webasto technician only):

- Forced Air System: <u>Annually</u>, inspect/replace filter, check lint/dust around cowling, check ducting, check exhaust and exhaust blanket. Test run for 1-2 hours. (In addition <u>on odd numbered years</u>, open unit, clean and inspect, evaluate seals.)
- **Hydronic System:** Annually, inspect/replace filter, check pH balance, check fans, check exhaust, quick air bleed, blow coils out, quick check combustion tube (clean as necessary). Test run for 2-4 hour. (In addition on odd numbered years, change fuel nozzle, change water conditioner filter, wipe photo eye clean, clean electrodes, pull

combustion tube our and wire brush clean.) 46. **M** Date & Initial: _____ On all holding tanks, use 1" air vent hoses (replace fitting to larger 1" if necessary) to prevent overfill clogs (debris) in the vent hoses leading to "vacuum lock" which prevents/hinders holding tank discharge, and for odor abatement (microbes in tank need lots of oxygen). For through-hull, use stainless steel (Mfg# THMB1.000S by Marine Hardware). In most cases, leave the "clam shell" off. OPTIONAL: For better aeration for microbial action and odor reduction, install TWO 1" vent hoses per tank. Replace any non-skid on stairs if worn. Clear tape coated with varnish or 47. M O Date & Initial: brown non-skid tape recommended. 48. **M ONLY** Date & Initials: ___ _____ Inventory tools in onboard toolbox against SJS's required Tool List. Purchase and/or replace tools as necessary. Wipe down all metal tools and parts with WD-40. NOTE: Maintenance professional is required to confirm to SJS that all required tools are aboard. 49. **M ONLY** Date & Initials: ______ Inventory spare engine parts against SJS required "Engine Spares" (see and check off list below). Purchase and/or replace engine spares as necessary. Place items in plastic (e.g., Sterilite) box labeled "Engine Spares". NOTE: Maintenance professional is required to confirm to SJS that all required engine spares are aboard. 50. **M ONLY** Date & Initials: ______ Inventory general spare parts against SJS required "General Spares" (see and check off list below). Purchase and/or replace general spares as necessary. Place items in plastic (e.g., Sterilite) box labeled "General Spares". NOTE: Maintenance professional is required to confirm to SJS that all required general spares are aboard. OWNERS: Location of general spares must

(See next page for required tools and spares – check off that all are aboard)

be clearly indicated in Notes from Owner, under "S" for "Spares Parts".

Assembled in BOX with clear plastic cover labeled: "Engine Spares"

Spare fuel filters for engine, generator (if applicable)

Spare filters for watermaker (if applicable)

Spare belts for engine, and generator (if applicable)

Spare impellers for engine, and generator (if applicable)

Impeller "puller" tool (needed on all boats)

Spare impeller plate gaskets

Minimum of a half dozen 12" zip ties

In a compartment (with location noted in you Owners Notes):

1 quart each spare oil for engine, and for generator (if applicable)

1 gallon of appropriate engine coolant (NOTE: Not automotive engine coolant.)

Battery water (distilled) - write "for batteries" on container

Replacement head pump (for manual pump toilets only) / plus a dozen pairs of surgical gloves

OR

If you have a VacuFlush head, 4 duckbill valves per toilet plus on bowl seal and one ball valve assembly.

Assembled in BOX with clear plastic cover labeled: "General Spares"

Minimum of 2 spare light bulbs for each type of navigation and cabin lights

<u>To consume less power, recommend replacing halogen bulbs with L.E.D</u>: Imtra – IMT ILBPG4-10c ("bright white" light for heads) and Imtra – IMT ILBPG4-10w ("warm while" light for all other areas)

Minimum of a dozen 12-inch zip ties

2 hose clamps for each size fitting

6 cotter rings, various sizes

Various screws, nuts, bolts

2 spare lifeline pins – clevis pins

Spare stanchion tensioning screws (if applicable)

Whipping twine for end of sheets

Stainless seizing wire

Sail repair needles and thread, sail repair tape

If applicable, assembled in BOX with clear plastic cover labeled: "Hydronic Heater Spares"

Coolant conditioner filter Fuel Nozzle Photo eye

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TOOLS (need both 1 and 2 below...or one tool box containing all of the items below)

1. Tool <u>box</u> or tool <u>bag</u> containing:

10 inch crescent wrench

Channel locks

One each: #1 and #2 slot (straight) and Philips head screw drivers (4 total screw drivers)

Small hack saw (tungsten or carbon blade preferred)

Vice grips (large)

Can of McLube SailKote – non dirt/grit attracting spray lubrication (SJS bulk buy)

Assortment of small nylon, stainless steel and bronze bushes

Small metal file

Roll duct tape

Digital voltmeter (SJS bulk buy)

2. West Marine 133-piece tool set (SJS bulk buy). Contains:

Open-end box wrenches:

SAE 3/8"-5/8" Metric 10,12,13,14,15mm

Socket wrenches:

SAE 5/32"-1/2"x ¹/₄" drive Metric 4-12mm ¹/₄"x drive 3/8"-11/16"x 3/8" drive 9-17mm 3/8"x drive

5/8" & 13/16"x 3/8" drive spark plug sockets, 1/4" adaptor

3/8" drive ratchet

6" adjustable crescent wrench

5"needle nose pliers (with wire cutter)

5" side cutter

Small needle nose pliers with built-in wire cutter

Electrical crimping tool

Small 12-volt tester with negative alligator clip lead (optional if digital voltmeter above is aboard)

Small wire brush

Small file

#0 x 3" Philips screw driver

Bit driver handles 1/8"-1/2", assorted terminal ends

Allen wrenches:

SAE 1/16"-1/4" Metric 1.5-6mm

Assorted driver bits including Philips, slot, hex and star (optional with the 4 screw drivers above)

Maintenance Professional (only) Date & Initials:

prong holes.

"WINTER WATCH" & STORM CHECK

October - April	DURING AND AFTER STORMS : Complete 1-6 below.	
_		

	Dat Dat	e & Initial e & Initial	Date & Initials:	Date & Initials Date & Initials	Date & Initials: Date & Initials:						
1.		ommen		1 0	alter/replace (add chafe gor added holding in storm	•					
2.	M	0	Check fenders for pla	acement, pressure, wea	ar. Reposition, inflate or re	eplace as needed.					
3.	M	0	Assure dinghy remain	ns secure.							
4.		O nection	•		e water). <u>Place hand on sha</u> eck power is "on" and cha						
5.	pro		covers, dinghy and/or	outboard covers, etc.)	dow coverings, binnacle and secure as necessary. 'even blow overboard!						
If seve	re fre	eeze is p	predicted:								
6.		o ust tem		• /	e below, inspect for milde ORTANT: Following free:						
MON'	THL	Y OFF-	SEASON: Complete	1-7 below.							
			& Initials:	Date & Initials:							
			& Initials: & Initials:	Date & Initials: Date & Initials:							
1.		O perating	•	, 11), run under load (in gear, er walls and on transmiss	· • • • • • • • • • • • • • • • • • • •					
2.		o O		•) for a minimum of 30 mi	_					
3.		0		, ,							
4.											
5.	M	0	Check bilges. Operat	te bilge pumps and flo	at switches. (Repair/repla	ice if necessary.)					
6.	M	0	Rotate rudder post to	to lubricate shaft and reduce exacerbated passive electrolysis.							
7.	M	0	Conduct security che	ck for entry, damaged or missing equipment. (Notify SJS if problems.)							
8.	M	0	Put hand on shorepov	wer/boat connection. I	er/boat connection. If warm, find source of heat buildup. Check						

shorepower cord connection (male end, at dock box) for signs of black electrical arcing on prongs or

1.

0

Date & Initials:

ANNUAL HAUL-OUT

Note: Owners may opt for haulout every 18 months or every second year to reduce costs, provided that, if the 24 month option is chosen, it is subject to these conditions:

- during prior year haulout the boat has two coats of ablative paint and three coats at the leading edges and extending two foot below the waterline.

- all inspection items below are performed by a diver

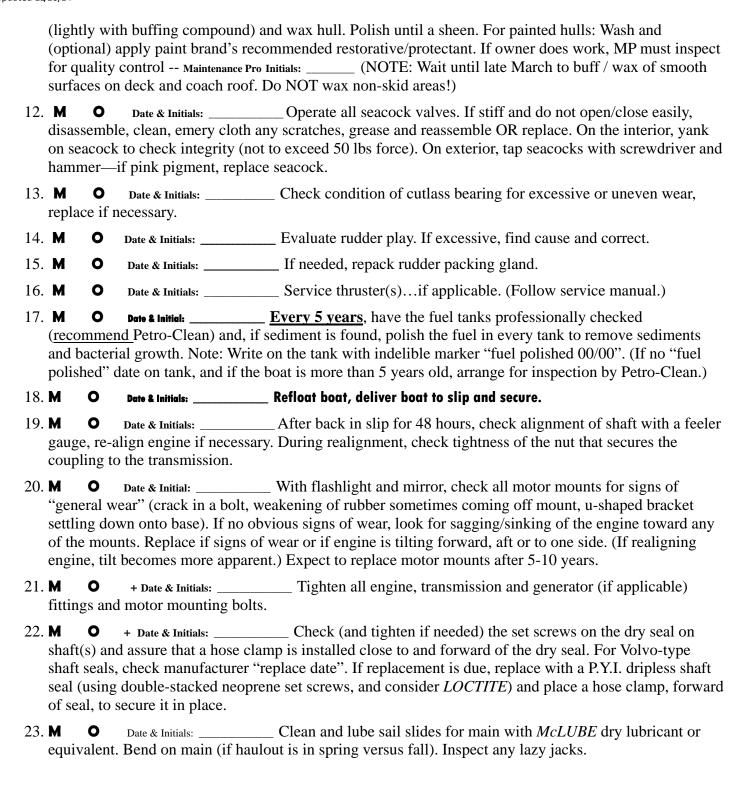
- clean and wax hull at waterline by hand; optionally wax upper hull with electric buffer at dock, using extreme care to avoid electrical accident (cost is higher due to risks, consult with maintenance pro)

Complete all required tasks, plus Spring Checklist, Deep Clean and Shakedown Cruise <u>no later than one</u> week prior to Annual Spring Launch Celebration and/or Charter Fest

Schedule boat for haulout with vard and deliver to vard.

NOTE: If you would like your vessel eligible for pre-Charter Fest charters (those prior to mid-April), please be sure your annual haulout is completed before December 31, 2014. (Consult your maintenance pro.)

		_		
2.	M	0	Date & Initials:	Pressure wash bottom (normally done by yard).
3.			rut(s), prop(s), rudd	Check hull and keel for damage. Check running gear for damage: ler(s). Report any damage to SJS. Arrange for any necessary repairs after tense if could be detected by diver, unless caused by owner.)
4.	repa	ment b inting	below. Note: ablative may not be necessa	Evaluate condition of bottom paint. Complete 5 and 6 below, or we paints recommended; after years or coats of ablative, occasionally ary. Some owners opt for the initial base coat in a different color than easy identification of when additional coats are needed.
Mainte	nance	Profe	ssional's Paint Con	dition Evaluation/Comments:
5.	M fresh	On coat		Sand or rough up existing paint surface (where needed) to prepare for the surface with Acetone prior to painting.
6.	-	o ial pai ing ed	nter's tape, then pa	Obtain and mix paint (ablative recommended), tape waterline with int bottom. Add a second coat from the water line down 2 feet and on all
7.	M foldi	o ng pro	Date & Initials: op (if applicable).	Sand propeller shaft(s) and propeller(s) with #400 sandpaper. Service
8.	M	0	Date & Initials:	Replace all zincs.
9.	M	0	Date & Initials:	Inspect fiberglass on hull and deck for any blisters.
10	for a	ny neo	pect for chips and s	Rub out hull gelcoat scratches with rubbing compound and power cratches through the gelcoat. (Report any chips/scratches to SJS. Arrange airs after consulting with SJS SJS expense, unless caused by gelcoat
11	. M	0	Date & Initials:	For non-painted hulls: Wash, if any minor gelcoat scratches, buff



SPRING 2015: Complete no later than Spring Launch Celebration/Charter Fest all tasks below.

(NOTE: Bellingham "CharterFest" Boat Show is typically mid-April each year.)

1.	o syste			Read and edit for accuracy and completeness (need to cover all of sure about accuracy of the operations procedure for a system, check with							
	your maintenance pro or SJS. (NOTE: Inaccurate operations procedures in Owners Notes for a system of the vessel will make it difficult/impossible to hold a charter guest responsible for damage to that system.) IMPORTANT: Location of your "Engine Spares" box plus the extra oil and coolant, your "General										
	Spar	res" bo	\overline{x} , and your tool be	ox (or bag) must be clearly indicated in your Owners Notes under \underline{E} for nt", under \underline{S} for "Spare Parts (general)" and \underline{T} for "Tools". At end of Notes,							
				" that highlight specific unique aspects of your boat10 "must know" items.							
2.	deck coat	ks; opti s Cetol	tol/polyurethane to onal for teak rails; Natural, then 3 co	Inspect and if necessary, apply two coats exterior teak trim. Renew areas as necessary. Note: no treatment for teak mandatory for grab rails/trim. Cetol recommended. If raw teak, apply 3 oats Cetol Gloss. If varnished, sand with 600-1000 grit, then apply 3 coats y two coats Cetol Gloss annually or one coat in spring, one coat in fall.							
3.	dodg bung	gees an	nini, sail cover) wi	Inspect canvas for mildew or dirt and if present, clean canvas (e.g., ith "Oxy Clean" or other recommended mildew remover, replace tension ary. Apply Vaseline to all snaps. (Machine wash boom cover on gentle cycle ine dry.)							
4.	M and	o fastene	+ Date & Initials:ers are tight and co	If Bimini, check that zippers are operational (with no teeth missing mplete.							
5.		o water le		Check battery voltages (with charger "off") and, on unsealed batteries batteries, replace if necessary. Turn charger back "on".							
6.	M	0	Date & Initials:	Turn on all interior lights. Replace bulbs if in-op.							
7.	M	0	Date & Initials:	Replace batteries in CO detector(s).							
8.	M ligh	o hts, che		Turn on running, steaming, deck flood, anchor and other exterior corrosion if not working and replace if necessary.							
9.	M	0	Date & Initials:	Check all non-engine hoses and pumps to assure they are operational							
10.		O e) attac	Date & Initials: hed with nylon str	Open all seacocks. Assure that there are wooden plugs (appropriate ing to each seacock.							
11.		o eration.		Start engines and genset (if applicable) and warm up, verify proper							
12.		orosion/		Spray engine and electrical components with WD-40 to prevent							
13.		O rudder	+ Date & Initials:	Grease rudder shaft(s) (if zerk fitting available), check adjustment applicable).							

14.	for tigh	signs o	f rubber deterioration	Check P.Y.I. dripless shaft seal (if this type is on vessel). Examine on/cracking. Assure that double-stacked neoprene set screws (two pairs) are screws are actually being used. Consider using <i>LOCTITE</i> if compatible with
	OR			
			el has the "Volvo" t f grease.	type black rubber shaft seal, grease the inside lip of rubber seal with
15.				Remove drum and inspect all winches. If necessary, clean parts in with winch grease and light lubricant on pawls, reassemble.
16.	nec insp	essary, pect and	rebuild pump or rep d service as recomm	Service all Jabsco toilets: Replace flapper and duckbill valves. If place pump OR replace entire toilet (fairly inexpensive). All other toilets, nended by manufacturer. RECOMMENDED: Replace Jabsco toilet(s) with Reliable with sea water or fresh water option. (Consult maintenance pro.)
17.	floa	_	nsor mechanism, cl	Check accuracy of holding tank "full" lights and gauges. If ean and lubricate. If in-tank sensors, clean off film. (SJS recommends the full" type of holding tank gauge.)
18.		O le and r		Inspect (and operate) stovetop burners <u>and oven burner(s)</u> for ted to assure proper flow and operation.
19.	spre con anc inse	nection hor, rur ert bulb h top ro	nroud retention (and as, masthead roller a nning) clean contact s and ensure that lig oller sits on forestay	Aloft inspection: Remove spreader boots, inspect for corrosion and drepair as necessary). Inspect masthead (VHF antenna, coaxial and masthead fly alignment). Remove light bulbs (steaming, deck/spreader, ts on bulb and socket and spray with electrical anti-corrosion lubricant; reghts are operative. Check jib furler ease of operation and luff stretch (how v). Wash upper roller furling bearings with fresh water. Descend along a pins on forestay for failure or "backing out".
20.			+ Date & Initials: bearings with fresh	Inspect roller furling gear turning blocks and line for wear. Wash water.
21.		oplace as	+ Date & Initials:	Inspect all blocks (and attachments) for stressed/bent parts.
22.	M	0	Date & Initials:	Inspect running rigging for wear or faded lines. Replace as needed.
23.	M	0	Date & Initials:	Check all standing rigging for broken wires.
24.		O OIL per		Lubricate all threads on standing rigging with <i>PERMATEX</i> or coated with <i>LANOCOTE</i> .
25.	M	0	+ Date & Initials:	Replace all cotter pins (if removed).
26.	M	0	+ Date & Initials:	Check tune of rig, and retune if necessary.
27.	deli tale	iver to ses on bo	sail maker/loft for in	ce throughout winter: M O Date & Initials: Remove sails, inspection/reconditioning, and ask sail maker to ensure minimum three tell lib (luff). Pick up sails. If boat was decommissioned in Fall, a been done.
28.		0	_	Bend on sails.

29.		Date & Initial: _ , or Krylon Rust-		,	mmendation: <i>Hammer</i>	ite Rust Cap, Rust-
	50' their paint. (reafter. If chain o	comes out of a low Amsteel s	hause pipe, the last 20		of yellow paint at every be marked in solid red oven through links as
30.				ure hard plastic label fee chain marking info.	rom SJS office is affix	ted in vicinity of anchor
31.	leaks. Opolyprorecomm	Check painter an opylene line (ava	d bridle (if app ailable from SJ bottom for we	plicable) for wear. Rep JS, Owners Consumab	place if necessary with bles Inventory)minin	
32.		Date & Initial JDING swim ste			l assure domestic wate	er pump and all faucets

TURNAROUND SERVICE (During Season)

AFTER EVERY CHARTER: Log engine and genset (if applicable) hours, complete 1-8 below: Initials:_____ Eng: _____ Gen: _____ Date: _____ Initials:_____ Eng: _____ Gen: __ Date: _____ Initials:_____ Eng: _____ Gen: _____ Date: _____ Initials:_____ Eng: ____ Gen: ___ Initials:_____ Eng: _____ Gen: _____ Initials:_____ Eng: ____ Gen: ____ Date: _____ Date: _____ Initials:_____ Eng: _____ Gen: ___ Date: _____ Initials:_____ Eng: _____ Gen: ____ Initials:_____ Eng: _____ Gen: _____ Initials:_____ Eng: _____ Gen: _____ Date: _____ Date: _____ Initials:_____ Eng: _____ Gen: ____ Date: _____ Initials:_____ Eng: ____ Gen: ___ Initials:_____ Eng: ____ Gen: ___ Initials:_____ Eng: ____ Gen: ___ Date: _____ Date: _____ Initials:_____ Eng: ____ Gen: ___ Date: _____ Initials:_____ Eng: _____ Gen: ___ Date: _____ 1. M Place hand on shorepower/boat connector to assure no heat. If warm, notify Maintenance Pro. Assure batteries are being charged. 2. Check oil (use oil recommended by engine manufacturer) and coolant levels in engine and genset (if applicable), add fluids as needed. • Check belts for tension (1/2 inch deflection), wear (look for black powder and cracks in 3. belts). Adjust or replace. M • Check sea strainers on engine and genset (if applicable), and showers and bilge pump, clean 4. as necessary. (Check center bilge for water, empty if wet.) M 5. Check oil pads, clean engine bilge and replace pad if dirty. Follow up any fluid leaks! 6. M Check extra oil (quart-size only) and coolant supply (wherever supplies are kept). IMPORTANT NOTE: Leave no transmission oil onboard. Check shower and potable water strainers. Clean if needed. 7. M 8. M Quick visual check of standing and running rigging and stanchions and life lines. MONTHLY DURING SEASON (April 15 - October 15): Complete 1-5 below. Date & Initials: Date & Initials: Date & Initials: Date & Initials:___ Date & Initials:____ Date & Initials:____ Check rate of raw water lubrication of prop shaft. Adjust if necessary 1. (applies only to adjustable shaft logs). Check for water leakage at shaft log seal. OR On dripless shaft seals, hand-check seal. Make sure the set screws are tight. (Does it spin on shaft?) Make sure hose clamp is close to seal and the screw adjustment is tight. (Does it spin?) 2. Check absorbent pad under transmission for signs of leakage. If soiled, replace and date. Follow up any leaking! М 0 If unsealed batteries, check battery water levels, top off if needed. 3. 4. M 0 Check vacuum gauges on fuel filters (if present). 5. M 0 Inspect and, if necessary, replace engine and genset (if applicable) zincs. (If monthly checks reveal a slow rate of deterioration, then less frequent checks okay.) **MEMORIAL DAY:** Date & Initials: ______ * Add STANADYNE to fuel (1oz per 40 gallons of fuel). Available from San Juan Sailing. AT LEAST EVERY 200 HOURS OF OPERATION: M Change oil and oil filter in engine and genset (if applicable).

Date & Initials: /engine hrs: Date & Initials: /engine hrs: