

## Lancer 40 Maintenance and Refit Record

10/13

Installed Xantrex Freedom 30 Charger / Inverter and DC Distribution Cables

Installed (2) New Walmart Group 27 Lead Acid Batteries (Total of 3)

Replaced port side halyard winch, Lewmar 30

01/14 Installed new gaskets in most salon port lights

04/14

Installed new Mantus 65 lb. Anchor, 15' chain and 300' 5/8" 8 Plait Rode

Installed new 1/2" Plait Dock Lines

Cleaned Air Conditioner Water Coils

Installed 3/4" Raw water hose to Air Conditioner Coil

Charged Air Conditioner with Replacement Freon (Freeze 12)

Cleaned Diesel Tank and polished fuel

Sails cleaned, refurbished and recoated by Sailcare

11/14

Installed new 1/2" Genoa Sheets

Installed new propane hoses and relocated tanks to the aft deck box

Installed Galvanic Isolator

Installed new high rise galley faucet

Installed new GFCI Outlets

Upgraded wiring beneath galley sink and in engine room

01/24/15

Replaced Racor Primary Fuel Filter.

Replaced Volvo Engine Mounted Fuel Filter.

Added Biocide to Fuel Tank

Installed vented loop after engine raw water pump.

Installed Pitboss remote monitored bilge alarm.

Installed Furlex Furler and tuned the rig. Mast rake is too great. Backstays need lengthened.

02/21/15

Installed new jib halyard.

Changed Oil and Filter. Rotella 15W-40. 4.5 quarts

03/09/15 through 04/18/15 On Hard at House of Boats Rockport, TX

New Bronze Seacocks with fiberglass backing plates glassed to hull

Replaced all below water line pipe fittings with bronze (all brass and plastic fittings eliminated)

New Bronze strainer for engine room manifold (manifold allows fresh water layup of engine and air conditioner)

Glassed over 5 unneeded thru hulls, only 4 remain

Glassed over old knot meter pipe at root of keel. Pipe remains and could be reopened if so desired.

Interlux 2000 Barrier Coat (4 coats)

Pettit Trinidad Bottom Paint (2 coats, 3 at waterline)

New stainless steel standing rigging

New sanitation hoses and engine intake hose

Replaced most hose clamps with non-perforated 316 SS

Cleaned engine, engine room, under sinks and A/C compartment

New engine raw water pump

New engine fuel line  
Installed Racor Filter Service Kit  
Cleaned engine air filters  
Painted mast with Interlux Epoxy Primer and BLP Mobile Paints Mothane (4 top coats)  
Serviced Saildrive with new seals and shims. Filled with Rotella 30W (could not find the recommended 20W-30)  
New Volvo propeller hub and mounting hardware  
New zincs on saildrive and propeller hub  
New rubber cover between hull and leg.  
The existing saildrive rubber mounting donut appears in good shape.  
New wiring in mast.  
New Metz VHF antenna and LMR-400 cable  
New Wilson Cellular antenna and LMR-240 cable  
New Garmin 18HD radar  
New Maretron Ultrasonic Wind Instrument and N2K cable  
Raised radar bracket above first spreader and had it powder coated  
Modified mast steps to reach first spreader  
New LED Anchor light  
New LED Steaming light  
New LED Spreader lights  
New LED Foredeck light  
Raised chain locker thru-hull above water line and installed new hose  
Touched up topside paint  
New running rigging  
New Selden Blocks  
Installed Garmin 4208 Chart Plotter  
Tuned standing rig under sail  
Fixed wiring to Head flushing motor  
Fixed wiring to the Macerator Pump  
Replaced fuel line and valve between tank and engine  
09/03/15 thru 09/16/15  
Installed new deck hatches fore and aft  
Installed new shade/screen units for hatches  
Installed new mast pipe at deck  
Terminated NMEA 2000 cable for wind instrument  
Installed new LMR 210 cable from mast to engine room for cell antenna  
Bedded starboard stern rail and repaired crack at hull to deck joint  
Installed new Garhauer rail block for jib furler  
Replaced manual bilge hose and installed new strainer  
Installed new Battery Monitor  
Installed new Garmin GHP 12 autopilot and Class B Compact Drive Unit  
10/16/15 thru 10/21/15  
Installed new Vetus Lift Box (muffler) and elbow  
Installed link on forestay and shortened backstay by 3.25"  
Greased jib furler  
Adjusted spreaders and tied with stainless wire  
Tuned the rig

Pinned and taped turnbuckles  
Installed Standard Horizon GPS/AIS VHF and remote mic  
Added oil to sail drive reservoir  
Replaced line on traveler  
Installed 12V outlets at helm  
Replaced (2) fire extinguishers  
Replaced batteries in smoke and CO detectors  
Watered the house batteries  
Replace joker valve in the head  
Secured emergency plugs to thru-hulls  
Added new emergency tiller  
Replaced missing Bimini bow  
11/15  
Purchased (10) New Found Metal stainless port lights. Installed (4).  
Replaced lamps in starboard dome lights with LED.  
01/01/16 thru 01/03/16  
Modified engine kill switch linkage  
Installed fuse block at radio station  
Installed Maretron USB100 and programmed diesel tank and water tank sensors (TLM100's)  
Installed harness for new Kenwood Stereo Receiver  
02/12/16  
Installed Tides Strong Track on mast and added compatible slides to mainsail  
05/28/16 thru 05/30/16  
Installed new Starboard lids for aft deck boxes  
Cleared water tank vent. Needs routed to anchor locker.  
Installed new 7/8" dock lines  
Engine missing on No. 2 cylinder. Removed and tested injectors.  
Added new Fortress FX-23 anchor.  
Replaced lid, hardware and painted the on-shore dock box  
06/16  
Rebuilt all three engine injectors and reinstalled. Engine running smooth.  
07/01/16  
Cleaned barnacles from prop. Improved performance dramatically.  
12/27/16 - 01/02/17  
Replaced bilge pump and switch with Rule 1500 and Atwood electronic switch.  
Installed new heavier (#10) bilge pump wire.  
Installed new Whale 3 gpm fresh water pump with expansion tank.  
Cleaned, repainted and added shelves in air conditioner locker.  
Replaced air conditioner with new Webasto 16,000 Btu reverse cycle unit.  
Added LCD TV in forward stateroom.  
Installed new raw water pump on engine.  
Installed new reduced gear engine starter.  
Installed new 65A alternator on engine.  
Installed Xantrex Freedom 20 charger/inverter.  
01/03/17 - 01/23/17  
Hauled the boat out at Payco and set her on the hard.  
Repaired damage to bow with two layers of biaxial, multiple layers of chopped mat and silica

thickened filler.

Repaired scrapes on keel with chopped mat and filler.

Repaired nick in rudder with chopped mat and filler.

Replaced all four motor mounts on the engine.

Replaced folding propeller blades with new bronze Volvo blades.

Replaced anodes on saildrive with new aluminum anodes. (More active than zinc.)

Straightened saildrive propeller shaft.

Replaced lower seals and aft prop shaft bearing in Saildrive.

Replaced rubber coupler between engine and saildrive.

Replaced saildrive rubber bellows (boot).

Replaced saildrive rubber fairing. Applied with 3M rubber cement.

Painted saildrive. Lower end and prop with two coats Interlux Interprotect 2000E, and three coats of Trilux 33.

Painted all hull repairs, and interstitial space at saildrive cut out with Interlux Interprotect 2000E, and two coats of Petit Trinidad 75 SR.

Serviced rudder, checked post and tube, lubricated with Superlube, installed new packing in Edson packing gland. Installed new rudder washer between rudder and skeg.

Scuff sanded remainder of hull and applied fresh coat of Petit Trinidad SR.

Replaced (3) Group 27 house batteries, and (1) Group 24 start battery with new.

03/21/17 - 03/27/17

Installed new Webasto 16000 BTU reverse cycle air conditioner.

Removed the solar panel and wind turbine structure and repaired deck boxes where old structure attached.

Installed new Kenwood stereo.

Prepared engine for paint.

Hauled boat out for survey by Newberry & Maudlin. Need to fix tabbing at mast and main bilge, and replace lamp in stern light.

Replaced stern light, repaired tabbing at mast compression post, and installed new fire extinguisher in aft cabin.

01/19

New Dodger

Engine oil and filter change

New color changing LED lights in salon.

04/19

Rebuilt fuel injection pump

Rebuilt fuel injectors

Rebuilt alternator

Painted engine

Repaired tabbing in main bilge

Installed articulating TV mount

06/19

New main sheet blocks

01/20

Replaced original Volvo engine and saildrive with Universal M50, four cylinder diesel engine and Volvo 130S saildrive