



555 Brommer Street
Santa Cruz , California 95062
[831-479-6910](tel:831-479-6910)

Work Order
03/15/2021 09:41:16 AM

#2761

Customer:

Jared Figursky
7700 Sandholdt Road
Moss Landing, CA 95039
MBARI
[831-818-2769](tel:831-818-2769) (Home)
[831-775-1967](tel:831-775-1967) (Work)
jared@mbari.org

Work Order Item:
27' RADON 'PARAGON' / YAMAHA TWIN 350 / (L)F350XCB / 6AXX-1005077/6AWX-1008128

Status: Finished

Warranty: No

Started: 02/12/21 05:37 am

Due on: 02/12/21 05:37 am

Employee: Dave Babica

Item/Labor

TRAVEL TO MOSS LANDING

#904300800300 DRAIN PLUG SEAL

#9321086M3800 O-RING

SHOP SUPPLIES

HAZARDOUS DISPOSAL (6-250hp)

YAMALUBE HD GEARLUBE BULK @\$.70/OZ.

PARTS SHIPPING AND HANDLING

#901110614400 HEX SOCKET BUTTON BOLT

Labor [2/11/21](#)

1.50HRS

VISUALLY INSPECT PORT POWERHEAD AND LOWER COWLING FOR FUEL LEAKS: NONE FOUND

CONNECT TO YDS AND PERFORM STATIC TESTS

INJECTORS: OK, IGNITION COILS: OK, FUEL PUMPS: OK

REMOVE EXHAUST COVERS AND INSPECT: NO TRACES OF FUEL

RUN MOTOR AND ASSESS OPERATIONS: GOOD, FUEL SHEEN PRESENT IN WATER

TAKE SAMPLE OF COOLING WATER DISCHARGE: NO FUEL CONTAMINATION

TAKE YDS SNAPSHOT AND TEST REPORT TO PRESENT TO YAMAHA TECH DEPT.

Labor [2/16/21](#)

YAMAHA TECH DEPT. RECOMMENDS CHECKING INJECTORS (SPRAY PATTERN OR POSSIBLY STICKING OPEN), AND CHECKING FUEL VAPOR CANNISTER FILTER FOR OBSTRUCTIONS OR DEBRIS

LABOR [2/26/21](#)

1.00HR

PORT MOTOR

VISUALLY INSPECT MOTOR FOR ANY LEAKS 'NONE'

REMOVE PROP

RUN MOTOR IN BUCKET

SLIGHT ODOR PF FUEL IN EXHAUST

CHECK FOR LEAKS WHILE RUNNING 'NONE'

CHECK INJECTORS 'GOOD'

CHECK COMPRESSION 'GOOD'
UNABLE TO DETERMINE PROBLEM

Labor 3/1/21

2.0HRS

RUN MOTOR IN CLEAN TEST TANK
FUEL SHEEN PRESENT IN TANK
REMOVE LOWER UNIT AND DRAIN GEAR OIL
PRESSURE TEST GEARCASE: GOOD
FILL GEAR OIL AND REINSTALL LOWER UNIT
GREASE ALL ZIRC FITTINGS

Labor 3/2/21

3.0HRS

SWAP LOWER UNITS BETWEEN MOTORS
RUN AND INSPECT FOR OIL SHEEN: BARELY VISIBLE
RUN AND ASSESS OPERATIONS WITH CUSTOMER
REINSTALL BOTH LOWER UNITS ON CORRECT MOTORS
DRAIN AND REFILL TEST TANK FOR ADDITIONAL DIAGNOSIS

Labor 3/3/21

0.50HR

CONNECT TO YDS AND CLEAR STORED CODES

Labor 3/3/21

2.0HRS

RUN STBD MOTOR IN CLEAN TEST TANK: SLIGHT SHEEN IN WATER
REMOVE STBD LOWER UNIT AND INSTALL TO PORT MOTOR
RUN PORT MOTOR IN CLEAN TEST TANK: SLIGHT SHEEN IN WATER
CUSTOMER REQUESTS RUNNING MOTORS IN THEIR OWN TANK

Labor 3/4/21

2.25HRS

RUN MOTOR IN CUSTOMER-PROVIDED TANK: SLIGHT SHEEN IN WATER
SWAP LOWER UNITS BACK AND RUN AGAIN: SAME CONDITION
COMPRESSION CHECK PORT MOTOR:
#1) 170, #2) 180, #3) 160, #4) 180
#5) 160, #6) 165, #7) 175, #8) 175

Labor 3/5/21

3.0HRS

SWAP LOWER UNITS AGAIN
CUSTOMER SWAPPED VST's BETWEEN MOTORS
PREP CUSTOMER-SUPPLIED TEST TANK
RUN AND ASSESS: AFTER ONLY 5 MIN OF RUNNING, OIL SHEEN PRESENT AROUND INSIDE PERIMETER OF TANK (WORSE THAN PRIOR TESTS)
DRAIN TEST TANK, CLAEEN OUT WITH SOAP AND WATER, PREP AND FILL
RUN MOTORS AGAIN: SAME RESULT

Labor 3/8/21

1.0HR

REMOVE PLASTIC MIDSECTION PANELS
INSPECT FOR TRACES OF LEAKS: NONE FOUND
REMOVE STBD LOWER UNIT FROM PORT MOTOR
DRAIN GEAR OIL AND PRESSURE TEST GEARCASE: FAILED

Labor 3/9/21

1.50HRS

PREP AND INSTALL CUSTOMER PROVIDED LOWER UNIT TO PORT MOTOR
RUN AND ASSESS OPERATIONS: GOOD, VERY SLIGHT FUEL SHEEN IN TANK
NO OIL TRACES PRESENT IN TANK
CLEAN OUT TANK AND PREP TO RUN AGAIN

Labor 3/10/21

RUN PORT MOTOR AGAIN IN CLEAN TANK: SAME SLIGHT SHEEN IN WATER
FILL GEAR OIL ON STBD GEARCASE AND INSTALL TO STBD MOTOR
INSTALL STBD SIDE COWLINGS
CLEAN AND FILL TEST TANK AND RUN PORT MOTOR AGAIN
CONDITION WORSENEED, SMALL DROPLETS (POSSIBLY OIL) IN TANK
CUSTOMER PERFORMED U.V. TESTS ON FUEL SYSTEM: NO CONCLUSIVE RESULTS
PERFORM U.V. TEST OF ENGINE OILING SYSTEM
AFTER 3 SEPARATE RUNNING TESTS, NO LEAKS OR CONCLUSIVE RESULTS FOUND

Labor 3/11/21

3.50HRS

DISCONNECT ANCILLARY COMPONENTS AND REMOVE POWERHEAD FROM PORT MOTOR

Labor 3/11/21

4.0HRS

REMOVE MIDSECTION COWLINGS AND DISCONNECT WIRING HARNESSSES AND HOSES
ASSIST WITH POWERHEAD REMOVAL
NO APPARENT SIGNS OF OIL INTRUSION TO COOLING PASSAGES IN LOWER PAN
REMOVE WIRING, FUEL LINES, FUEL RAIL AND INJECTORS

REMOVE CYLINDER HEAD COVER, EMULSIFIED OIL PRESENT AND RUST DEPOSITS ON CAMSHAFT**Labor 3/12/21****2.50HRS****SECURE POWERHEAD TO WORK BENCH****SET TO TDC AND REMOVE TIMING BELT AND CAMSHAFTS****REMOVE SPARK PLUGS AND CYLINDER HEAD (STBD BANK)**

Notes:

DIAGNOSE PORT MOTOR FUEL SHEEN IN WATER WHEN RUNNING



I hereby authorize the above repair work to be done along with the necessary materials. You and your employees may operate the unit herein described on any waterways or elsewhere for your own risk. An express mechanic's lien is acknowledged on above unit to secure the amount of repairs thereto. It is also understood that you will not be held responsible for loss or damage to the case of fire, theft, accident, inclement weather conditions or any other cause beyond your control. All balances are due upon completion and are subject to a 10% finance charge if over 30 days after completion are subject to additional storage fees.

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Jared Figursky