

CYPRESS COVE BOATING CTR
 3663 PONTCHARTRAIN BLVD
 SLIDELL, LA 70468

Customer ID : 03363 DAMMON, Charles "Chuck"

Address : 124 Eden Isle. Drive
 Slidell, LA 70458
 Phone : (985) 640-7891
 Boat ID :
 Boat Make :
 Boat Name :

Work Order # : 514171
 Invoice # : 926503
 Start Date : 10/18/16
 Completed : 10/18/16

Operation	Date	Part #	Description	Qty	Price	Hours	Labor
SVCENGL	10/18/16	:CSS	SHOP SUPPLY	1.000	9.00		
F90,F115,F150,F200,F225,F300,F350	10/18/16	62-S3227	REPLACEMENT ELEMENT	2.000	63.38		
Checked compression, changed engine oil & oil filter. Changed spark plugs and lower unit oil. Checked prop shaft seals for fishing line. Greased all fittings. Checked timing. Checked cable adjustments. Sprayed power heads with corrosion seal. Changed fuel filter. Checked battery water Pull down load off engine computer. Test run on hose. and added if necessary. Checked all anodes. Test ran engine on flush. Checked idle.	10/18/16	6P2-WS245-00-00	FILTER ELEMENT	1.000	38.00		
	10/18/16	6P3-WS24A-01-00	FILTER ELEMENT WITH	1.000	21.40		
	10/18/16	69J-24501-10-00	FILTER FUEL	2.000	63.70		
	10/18/16	90430-08003-00	GASKET	4.000	4.40		
	10/18/16	61A-45371-00-00	TRIM-TAB	2.000	54.90		
	10/18/16	6G5-45251-02-00	ANODE	2.000	50.40		
	10/18/16	69J-13440-03-00	lower unit oil chang	12.000	97.20		
	10/18/16	69J-13440-03-00	YAMAIOBE 4M BULK	2.000	39.90		
	10/18/16	69J-13440-03-00	ELEMENT ASSY. OIL CL	12.000	70.20		
	10/18/16		Labor	20.000	465.00	2.00	230.00
					0.00		
					977.38		230.00
R&R_W/P	10/18/16	61A-W0078-A3-00	WATER PUMP KIT	2.000	133.20	3.00	345.00
WATER PUMP REPLACE unit from mid-section and removed and replaced water pump kit. Reinstalled lower unit on mid-section. Test ran engine on flush and checked shift.	10/18/16		Labor		0.00		
					133.20		345.00
LABOR	10/18/16	63P-31950-00-00	RELAY ASSY	1.000	251.25	1.00	115.00
LABOR	10/18/16		Labor		0.00		
					251.25		115.00
PARTS	10/18/16	69J-13440-03-00	ELEMENT ASSY. OIL CL	-16.000	-418.50		
PARTS					0.00		
					-418.50		
					943.33		690.00
					0.00		0.00

TOTAL PARTS & LABOR : 943.33
 TOTAL OTHER & DISC : 0.00

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COMMENTS : SERVICED BOTH ENGINES. REMOVED LOWER UNIRTS AND REPLACED WATER PUMPS. CHECKED TRIM ON STBD ENGINE. FOUND RELAY NO GOOD. REMOVED AND REPLACED TRIM RELAY. SWAPED WIRES AROUND ON NEUTRAL SAFETY SWITCHES. REMOVED AND REPLACED WATER SEPARATOR FILTERS. GREASED ENGINES. REPLACED CRACKED THROTTLE HANDLE WITH USED THROTTLE HANDLE. TEST RAN ENGINES ON HOSE. PORT ENGINE HAS 1617 HOURS AND STARBOARD HAS 1165 HOURS.

WORK ORDER PRICE SUMMARY

Total Parts	: 943.33
Total Labor	: 690.00
Total Other Chgs.	: 0.00
Misc Supplies	: 0.00
Equipment Charges	: 0.00
Freight Charges	: 0.00
Mileage Charges	: 0.00
Sublet Charges	: 0.00
Environ. Charges	: 6.00
Other Charges	: 0.00
Total Labor Disc	: 0.00
Total Parts Disc	: 0.00
Sales Tax	: 159.25
	=====
	1,798.58

CHARGE CUSTOMER SUMMARY

Amount Previously Billed	: 2,254.88
Payments Received	: 0.00
Current Charges	: -456.30
Total Balance Due	: 1,798.58



Save date & Time	At 08:41 On October 18 2016
Customer Name	LF250TXR 6P3 X 1001506
Dealer Name	
Application Version	2.23
Database Version	2.23
Number of Engines	1
Protocol	K-LINE

Model Name	
Engine Serial No. (P.I.D.#)	
ECM No.	6P28591A24

1. Data Logger [Engine operating hours according to engine speed]

Engine speed			
- 1000 r/min	908.4		
1000 - 2000 r/min	250.4		
2000 - 3000 r/min	55.5		
3000 - 4000 r/min	108.3		
4000 - 5000 r/min	163.3		
5000 - 6000 r/min	125.0		
6000 - 7000 r/min	6.4		
Total hours of operation	1617		

3 Diagnosis

Item			Code
Pulsar coil	Normal		13
Engine temperature sensor	Normal		15
Knock sensor	Normal		17
Battery voltage	Normal		19
Air temperature sensor	Normal		23
Cam position sensor (EX)	Normal		24
Shift position switch	Normal		28
Air pressure sensor	Normal		29
Intake air passage	Normal		37
Oil pressure sensor	Normal		39
Engine shut-off switch	OFF		44
Shift cut-off switch	Normal		45
Thermoswitch	Normal		46
VCT (S bank)	Normal		68
VCT (P bank)	Normal		69
Cam position sensor(S bank IN)	Normal		71
Cam position sensor(P bank IN)	Normal		72
OCV (S bank)	Normal		73
OCV (P bank)	Normal		74
TPS	Normal		124
TPS	Normal		125
TPS	Normal		126
TPS	Normal		127
TPS	Normal		128
APS	Normal		131
APS	Normal		132
APS	Normal		133
APS	Normal		134
APS	Normal		135
ETV	Normal		112
ETV	Normal		113
ETV	Normal		114
ETV	Normal		115
ETV	Normal		116
ETV	Normal		117
ETV	Normal		118
ETV	Normal		119
ETV	Normal		121
ETV	Normal		122
ETV	Normal		123
ETV	Normal		129
ETV	Normal		136
ETV	Normal		137
ETV	Normal		138
ETV	Normal		139
ETV	Normal		141
ETV	Normal		142
ETV	Normal		143
ETV	Normal		144
ETV	Normal		145

Comment

SERVICE

2 Record of Engine Oil Exchange

Number			
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

4 Engine Monitor

Monitor Item (DATA)	Unit		
Engine speed	r/min	714	
Inlake air pressure	kPa	48.01	
Inlake air pressure	inHg	14.25	
TPS1	V	0.688	
Throttle valve opening angle	deg	4.0	
TPS2	V	2.666	
APS1	V	0.615	
APS2	V	0.684	
Atmospheric pressure	hPa	1010.8	
Atmospheric pressure	inHg	29.9	
Battery voltage	V	11.90	
Fuel injection duration	ms	5.08	
Ignition timing	deg	ATDC 6	
Engine temperature	°C	48.0	
Engine temperature	°F	118.0	
Inlake air temperature	°C	28.7	
Inlake air temperature	°F	83.6	
Oil pressure	kPa	578.0	
Oil pressure	psi	83.3	
Inlake cam timing (S bank)	deg	-1.1	
Inlake cam timing (P bank)	deg	-2.7	
Engine shut-off switch		OFF	
Shift position switch		ON	
Multi-engine system		OFF	
Shift cut-off switch		OFF	
Thermoswitch		OFF	
Main switch		ON	
Main relay		ON	
ETV relay		ON	
Fuel pump relay		ON	
A/D(CH1)	V	0.00	
A/D(CH2)	V	0.00	
A/D(CH3)	V	0.00	
A/D(CH4)	V	0.00	



Save date & Time	At 08:48 On October 18 2016
Customer Name	F250TXRD 6P2 X 1002155
Dealer Name	
Application Version	2.23
Database Version	2.23
Number of Engines	1
Protocol	K-LINE

Model Name	
Engine Serial No. (P.I.D.#)	
ECM No.	6P28591A24

Comment
SERVICE

1 Data Logger [Engine operating hours according to engine speed]

Engine speed			
- 1000 r/min	635.2		
1000 - 2000 r/min	194.2		
2000 - 3000 r/min	47.0		
3000 - 4000 r/min	87.2		
4000 - 5000 r/min	127.3		
5000 - 6000 r/min	71.3		
6000 - 7000 r/min	3.4		
Total hours of operation	1165		

2 Record of Engine Oil Exchange

Number			
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

3 Diagnosis

Item		Code
Shift position switch	Irregular	28
Pulser coil	Normal	13
Engine temperature sensor	Normal	15
Knock sensor	Normal	17
Battery voltage	Normal	19
Air temperature sensor	Normal	23
Cam position sensor (EX)	Normal	24
Air pressure sensor	Normal	29
Intake air passage	Normal	37
Oil pressure sensor	Normal	39
Engine shut-off switch	OFF	44
Shift cut-off switch	Normal	45
Thermoswitch	Normal	45
VCT (S bank)	Normal	68
VCT (P bank)	Normal	69
Cam position sensor(S bank IN)	Normal	71
Cam position sensor(P bank IN)	Normal	72
OCV (S bank)	Normal	73
OCV (P bank)	Normal	74
TPS	Normal	124
TPS	Normal	125
TPS	Normal	126
TPS	Normal	127
TPS	Normal	128
APS	Normal	131
APS	Normal	132
APS	Normal	133
APS	Normal	134
APS	Normal	135
ETV	Normal	112
ETV	Normal	113
ETV	Normal	114
ETV	Normal	115
ETV	Normal	116
ETV	Normal	117
ETV	Normal	118
ETV	Normal	119
ETV	Normal	121
ETV	Normal	122
ETV	Normal	123
ETV	Normal	129
ETV	Normal	136
ETV	Normal	137
ETV	Normal	138
ETV	Normal	139
ETV	Normal	141
ETV	Normal	142
ETV	Normal	143
ETV	Normal	144
ETV	Normal	145

4 Engine Monitor

Monitor Item (DATA)	Unit	
Engine speed	r/min	621
Intake air pressure	kPa	50.67
Intake air pressure	inHg	15.04
TPS1	V	0.669
Throttle valve opening angle	deg	3.5
TPS2	V	2.642
APS1	V	0.571
APS2	V	0.679
Atmospheric pressure	hPa	1006.8
Atmospheric pressure	inHg	29.8
Battery voltage	V	13.84
Fuel injection duration	ms	4.89
Ignition timing	deg	ATDC 7
Engine temperature	°C	47.5
Engine temperature	°F	117.5
Intake air temperature	°C	29.1
Intake air temperature	°F	84.4
Oil pressure	kPa	604.8
Oil pressure	psi	87.3
Intake cam timing (S bank)	deg	-1.5
Intake cam timing (P bank)	deg	-2.5
Engine shut-off switch		OFF
Shift position switch		OFF
Multi-engine system		OFF
Shift cut-off switch		OFF
Thermoswitch		OFF
Main switch		ON
Main relay		ON
ETV relay		ON
Fuel pump relay		ON
A/D(CH1)	V	0.00
A/D(CH2)	V	0.00
A/D(CH3)	V	0.01
A/D(CH4)	V	0.00

