



Save date & Time	At 10:57 On April 30 2013
ECM No.	
Model Name	F350TXR
Engine Serial No. (P.I.D.#.)	
Customer Name	
Dealer Name	Gladding Marine Surveying

4. Engine Monitor

Monitor Item (DATA)	Result	Unit	Monitor Item ON/OFF	Result
Engine speed	648	r/min	Engine stop lanyard switch	OFF
Intake pressure	36.18	kPa	Shift position judgment	ON
Intake pressure	10.75	inHg	Dual engine system switch	OFF
Throttle position sensor(main)	0.61	V	Shift cut-off	OFF
Throttle valve opening (0-90)	2.3	deg	Overheat thermoswitch	OFF
Throttle position sensor(sub)	2.603	V	Main switch(wakeup)	ON
Throttle request	0	%	Main switch(Receive data)	ON
LPS(main)	2.144	V	Main relay	ON
LPS(sub)	2.222	V	Electronic throttle relay	ON
Active Remote Control	15		Fuel pump relay	ON
Shift position sensor(main)	2.437	V	Shift relay	ON
Shift position sensor(sub)	2.402	V	Free throttle switch	OFF
Shift request	0	%	PT/T up switch	OFF
Atmospheric pressure	1010.8	hPa	PT/T down switch	OFF
Atmospheric pressure	29.9	inHg		
Battery voltage (12-16)	12.34	V		
Fuel injection duration	3.26	ms		
Ignition timing	ATDC 6	deg		
Engine temperature (below 135)	62.5	°C		
Engine temperature (below 275)	144.5	°F		
Intake temperature	49.3	°C		
Intake temperature	120.4	°F		
Oil pressure	493.8	kPa		
Oil Pressure	71.6	psi		
Intake cam timing (STBD)	1.7	deg		
Intake cam timing (PORT)	0.7	deg		
Trim/tilt sensor	3.052	V		

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

Engine speed	Time[h]
- 1000 r/min	173
1000 - 2000 r/min	48.3
2000 - 3000 r/min	58.8
3000 - 4000 r/min	29.2
4000 - 5000 r/min	55
5000 - 6000 r/min	13.8
6000 - 7000 r/min	0
Total hours of operation	378

6. Data Logger [Data comparison graph]

Time	Unit	Engine speed [r/min]	Battery voltage (12-16)[V]	Throttle position sensor [V]	Engine temperature (below 135)[°C]	Intake pressure [kPa]	Oil pressure (below 842)[kPa]	Throttle request [%]	Shift position sensor [V]
19	min	4350	13.8	2.05	92	78.2	536	69	0.703
18	min	4350	13.9	2.03	95	77.2	513	69	0.703
17	min	2650	14.1	1.17	97	52.9	521	43	0.703
16	min	1550	13.6	0.88	90	41.6	486	27	0.703
15	min	1550	13.3	0.88	83	42.5	501	27	0.703
14	min	1150	14.1	0.76	79	37.6	490	19	0.703
13	min	1250	14	0.8	77	40.6	501	20	0.703
12	min	1100	13.9	0.74	74	38.6	498	18	0.703
11	min	1200	13.8	0.76	73	39.6	505	19	0.703
10	min	1250	13.5	0.78	72	40.6	509	20	0.703
9	min	600	13.3	0.61	72	38.1	429	10	0.977
8	min	600	13.2	0.61	72	37.6	448	0	0.977
7	min	550	13	0.61	73	38.6	440	0	2.441
6	min	600	13	0.61	73	35.1	471	0	2.441
5	min	550	12.3	0.61	56	40.1	490	0	0.977
4	min	600	12.6	0.61	60	39.6	490	0	4.004
3	min	650	12.1	0.61	58	36.1	498	0	2.422
2	min	600	12.2	0.61	60	36.1	494	0	2.422
1	min	650	12.3	0.61	63	36.1	494	0	2.422

7. Record of Engine Oil Exchange

Number	Time[h]
1	-
2	-
3	-
4	-
5	-
6	-
7	-
8	-
9	-
10	-