

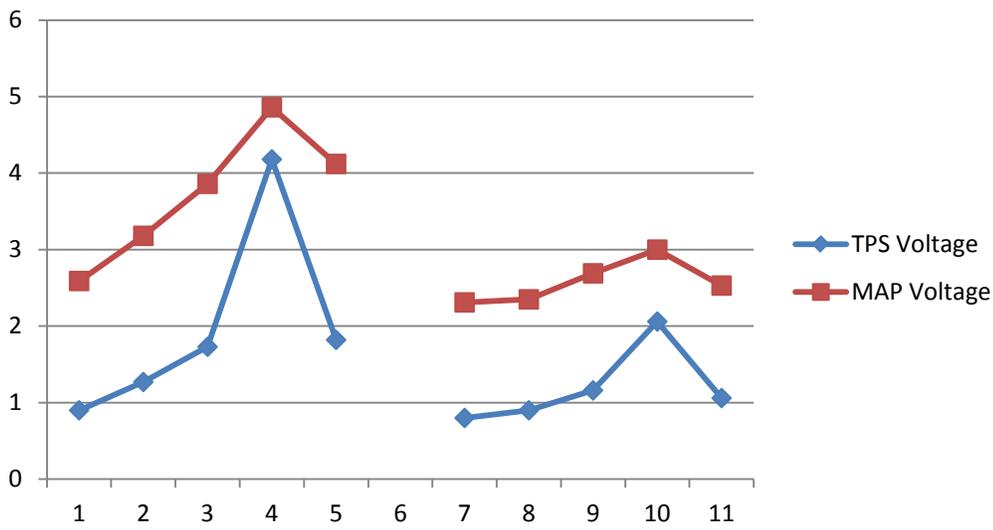
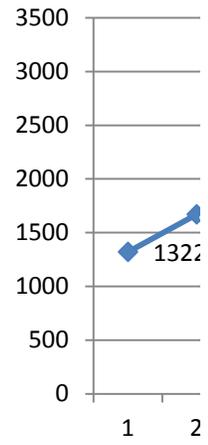
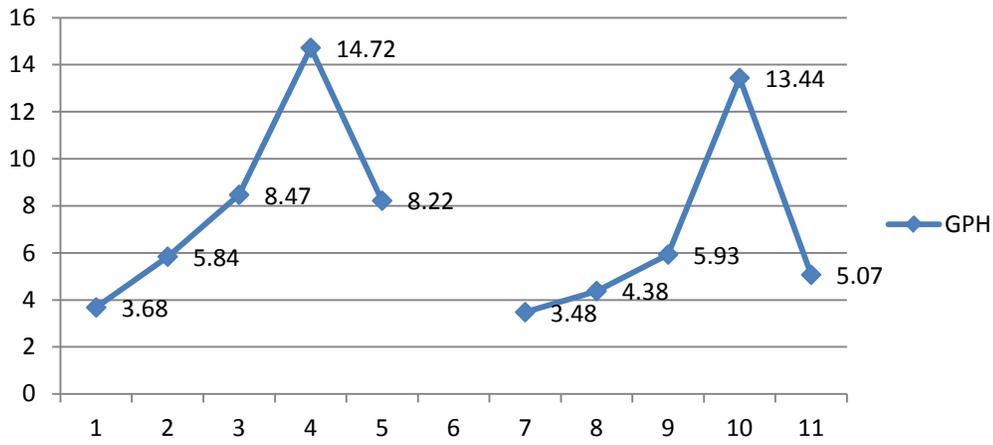
PORT MEFI 4					
Sample Times from engine startup	Time 11.5	12.5	15.5	18.5	58.5
RPM	1322	1671	2060	2430	1820
GPH	3.68	5.84	8.47	14.72	8.22
Coolant Temp	158.45	158.45	158.45	158.45	157.1
Voltage	11.5	11.5	11.3	11.2	11.4
Manifold air temp	85.55	88.25	90.95	105.8	109.85
Manifold Pressure	17.43	20.7	24.51	30.07	25.93
Barometric Pressure	30.51	30.51	30.51	30.29	30.29
Throttle %	10.16	20.31	28.12	96.88	31.25
Spark Advance	21.24	30.76	31.12	27.94	29.71
Knock Retard	0	0	0	0	0
IAC Actual Position	106	115	123	150	130
IAC Follower	5	14	22	79	25
Desired IdleRPM	1069	1069	1069	1069	1069
Injector On Time	3.32	4.09	4.98	7.22	5.32
TPS Voltage	0.9	1.27	1.73	4.18	1.82
MAP Voltage	2.59	3.18	3.86	4.86	4.12
Time Notes	Throttle Position % set equal	RPMs Matched	RPMs Matched	Full Throttle on Port, 3000 RPM on STBD - Only stayed here for 1 minute	RPMs Matched an hour later

STBD MEFI 3					
Sample Times from engine startup	Time 11.5	12.5	15.5	18.5	58.5
RPM	1398	1656	2020	3006	1830
GPH	3.48	4.38	5.93	13.44	5.07
Coolant Temp	161.15	159.8	159.8	162.5	159.8
Voltage	11.6	11.5	11.5	11.1	11.1
Manifold air temp	100.4	104.45	107.15	126.05	131.45
Manifold Pressure	14.71	15.15	17.22	25.28	16.24
Barometric Pressure	30.29	30.29	30.29	30.18	30.18
Throttle %	10.16	12.89	19.53	45.31	16.8
Spark Advance	16.3	24.06	32.18	31.47	30.76
Knock Retard	0	0	0	0	0
IAC Actual Position	85	88	94	104	76
IAC Follower	8	11	17	43	15
Desired IdleRPM	1100	1100	1100	1100	1100
Injector On Time	2.95	3.13	3.51	5.38	3.33
TPS Voltage	0.8	0.9	1.16	2.06	1.06
MAP Voltage	2.31	2.35	2.69	3	2.53
Time Notes	Throttle Position % set equal	RPMs Matched	RPMs Matched	Full Throttle on Port, 3000 RPM on STBD - Only stayed here for 1 minute	RPMs Matched an hour later

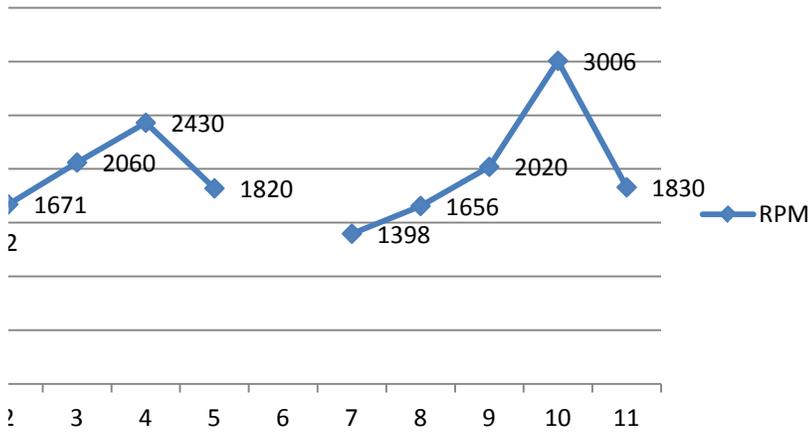
Observations:

Port Engine using more fuel throughout the RPM Range
 Big variation in Manifold air temps
 Manifold Pressure didn't drop much after full throttle even after an hour on Port
 Anything but idle requires port throttle to be more advanced to get the same RPM
 Spark advance on port starts higher, but falls off at max throttle. Stbd was at about half throttle
 IAC position higher on port engine - both are brand new
 MAP voltage has much larger curve on port engine

GPH



RPM



Full Throttle

Half Throttle

Parts Replaced

New Distributor Cap and Rotor

New Spark Plug Wires

New Spark Plugs

New IAC

New Fuel Injectors

Replaced rocker and pushrod on #8 cylinder - did not replace lifter, but hand cranking appeared to work

Adjustments

adjusted butterflies to make sure they are closed at idle (mis-adjusted by PO)

adjusted kinkage to make sure there is a bit of preload on throttle cable at idle

Adjusted torque on all even side valve train. These are non adjustable rockers, just crank em down to 4

Measurements

Compression Test: all 130-135 except #4, which was 120

Leak Down test: no significant leakage (slightly past rings. Was a dry test at room temp)

Running tests on sheet 1 done with dual Fox Marine Engine Gateways

< fine

!5ftlbs. Did not open the inboard valve cover yet.