

FuelTrax is a comprehensive fuel management system that allows you to monitor, collect, and record fuel and related vessel data, using four integrated systems working together to help you improve engine performance, increase operating efficiency, and lower costs.

- Fuel Consumption
- Tank Levels
- Vessel Logistics
- Throttle Optimization

"I need to know how much fuel my vessels actually use!"

Fuel analysis on a per engine basis provides valuable insight into the performance of engines allowing for more accurate and timely maintenance schedules that lower costs. Consumption monitoring can also be helpful in evaluating fuel savings technologies such as different prop or hull configurations or various fuel additives. The base FuelTrax configuration allows fuel consumption to be correlated with vessel speed. With optional RPM sensors, FuelTrax allows fuel consumption and vessel speed to be correlated with engine RPM.

Fuel Consumption monitoring provides a highly accurate record of fuel consumed. FuelTrax calculates usage by monitoring the supply and return flow rates to each main and generator engine. Consumption data can then be used for billing purposes; or to evaluate such things as the profitability of jobs or routes; or for reporting fuel usage within EPA non-attainment zones.

Date Range: Yesterday | From: 11/21/2006 12:00:00 AM | Days: 7 | Thru: 11/27/2006 11:59:59 PM

DateTime	FuelTrax Events		Operational Events			Distance & Speed		Hours			Fuel Consumption		
	Best Spd	Best Econ	Fuel Refills	Fuel Xfers	Alarms	Miles	Avg MPH	Travel	Idle	Total	Total	Rate	Econ
11/21/2006	7					112.69	5.61	20.08	3.92	24.00	3,013.24	125.55	26.74
11/22/2006	5					105.16	5.39	19.50	4.50	24.00	2,958.42	123.27	28.13
11/23/2006	7					123.95	5.97	20.77	3.23	24.00	3,157.35	131.56	25.47
11/24/2006	5					136.81	6.46	21.18	2.82	24.00	3,008.06	125.34	21.99
11/25/2006	5					165.84	7.15	23.17	0.83	24.00	3,364.55	140.19	20.31
11/26/2006	4					154.23	7.17	21.52	2.48	24.00	2,952.94	123.04	19.15
11/27/2006	3					174.71	7.66	22.82	1.18	24.00	3,186.12	132.76	18.24
		32				973.23	6.53	149.04	18.96	168.00	21,640.68	128.81	22.24
								89%	11%	100%	Gals	GPH	GPM

"Fuel accounting is critical!"

Tank Level monitoring provides accurate and timely accounting of fuel inventory. Tank monitoring accounts for fuel refills and transfers and can also set an alarm when a loss is detected. With the optional audible alarm subsystem, FuelTrax can sound an alarm when tank levels exceed a user defined threshold. This may help avoid spills during refills or tank-to-tank transfers. With an optional transfer meter, FuelTrax can also monitor transfers to other vessels, barges, or platforms.

Welcome to FuelNet: A FuelTrax Subscriber Service

Fuel Reduction Summary | Fuel Burn Analysis | Engine Fuel Summary | **Fuel Inventory** | Alarms | Logistics

Date: 12/13/2006 | Noon | Midnight

Tank Levels

Tank	Level
P1	1,639
P2	3,738
P3	864
P4	1,992
S5	2,608

Vessel Fuel Total Capacity: 38,622

Fuel Refills

Time	Lat	Lon	Min	Gal
10/19/2006 07:36:21	37.05586	-88.35144	24.02	1,504
10/19/2006 08:08:22	37.05586	-88.35148	40.03	5,966
10/27/2006 17:27:44	38.48404	-82.11855	63.87	8,286
11/01/2006 08:11:26	32.1801	-90.54811	40.00	7,022
11/07/2006 15:11:53	32.18019	-90.54823	24.02	6,781

Fuel Transfers

Barge ID	Time	Lat	Lon	Min	Gal
27302	10/26/2006 19:50:29	39.44839	-80.51807	33.00	83
29302b	10/27/2006 16:49:53	38.48404	-82.11855	20.00	188
30310t	11/03/2006 23:03:11	30.04789	-90.54813	22.00	94

Events: 5 | Totals: 191.94 | 29,559 | Events: 3 | Totals: 75.00 | 385

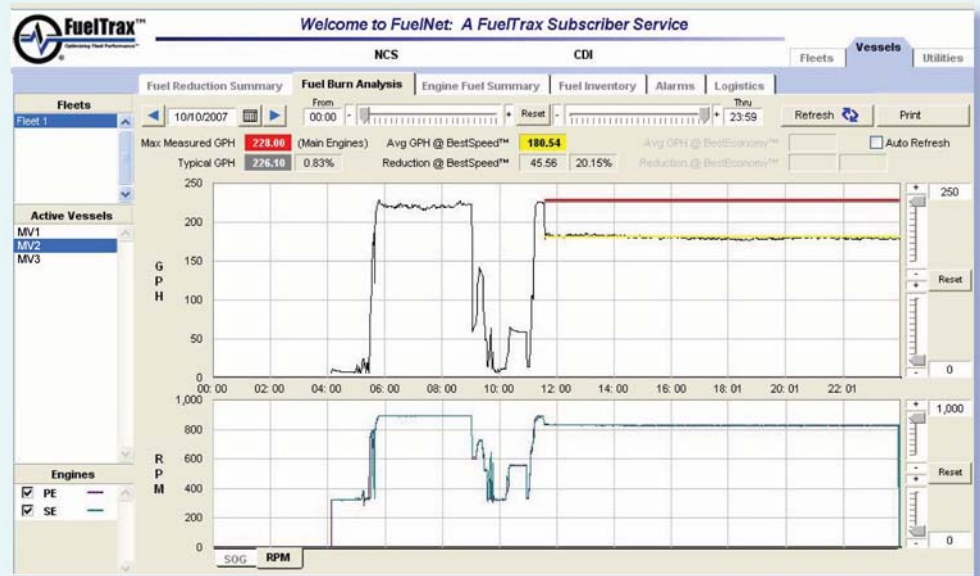
"I want to track vessel movements and know where certain things happen, such as refills or transfers!"

Vessel Logistics provides a record of GPS location, speed, and course in one minute increments. This is helpful when analyzing routes, planning new routes, investigating incidents, or calculating rates or taxes within specific zones or regions. When operating in the U.S. Inland Waterway System, FuelTrax is also correlated to River Mile Markers. Additionally, since FuelTrax captures fuel inventory levels and usage at each GPS record location, it's easy to spot non-scheduled fuel transfers or theft.



"Consistently operating at the most economical throttle setting is my competitive advantage!"

Throttle Optimization acts as an "expert system" to help captains identify and maintain an economic throttle setting for the current operating conditions. Drawing on data from Vessel Logistics and Fuel Consumption Monitoring, Throttle Optimization mathematically calculates and finds the most economic settings for either BestSpeed™ (go as fast as possible without wasting fuel) or BestEconomy™ (find the optimal trade off between consumption and speed).



Learn more about how FuelTrax can help you. Contact us today!



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