



Fuel consumption

Standard (*Original*) specifications - Nauticat 35 manual:

Fuel capacity 350l in two tanks

Cruising range 600Nm

∴ Theoretical consumption is $600 \div 350 = 1.70$ l/Nm Since the accuracy of diesel tank gauges are approximate, we operated on a practical measurement of fuel consumption – litres used/engine hour run.

Also since theoretical tank capacities may not apply in practice (i.e. some diesel is 'unavailable' in the tank due to height of fuel intake pipe above the bottom of the tank). Allowing for, say, a 10% margin of error the usable fuel capacity was 315 l in two tanks.

Fuel consumptions achieved using practical measurement above:

Lymington to Falmouth	1.80 l/hr
Falmouth to Bayonne	2.02 l/hr
Bayonne to Benalmadena	2.00 l/hr
Benalmadena to Almerimar	1.60 l/hr
Almerimar to Moiraira	1.70 l/hr
Moiraira to Porto Cristo	2.05 l/hr
Porto Cristo to Cagliari	2.43 l/hr
Around southern Sardinia	2.00 l/hr

On the consumption figures of 1.60 l/hr up to 2.43 l/hr and a usable fuel capacity of 315 l, engine running time on full tanks varied from 130 to 194 hours – or from **65 to 97 hours per tank**. Obviously this was dependent on sea and wind conditions, and the state of the hull. However a reasonable view of average consumption was 2 l/hr - and a running time of 75 hours per tank.

However, the original (galvanised mild steel) diesel tanks on Carpe Diem had to be replaced – due to corrosion – in 2016. They were cut out by Agmar Marine (Partheni Boatyard) in 2016, and replaced by the yard with four new (inter-connected), stainless steel tanks. The fuel consumption remains unchanged.