



# Kyma Ship Performance : Trial Report

Vessel : M/V Kyma Demo

Voyage : Test Demo

Report period from 06.03.2000 15:37:16 to 06.03.2000 16:37:16

Sea state : Calm sea, no wind

Notes : Test report

Trial Period	60.1	min
Wind True Speed	15.7	Knots
Wind Relative Direction	50	Deg
Ship Mean Draft	18.1	m
Ship Trim	0.4	m
Ship Course (from GPS)	0	Deg
Propulsion Power	27500	SHp
Propeller Speed	72.0	rpm
Shaft Torque	234.0	Tm
FO Gravity at 15.6°C	0.9400	
FO Lower Heating Value	10184	kcal/kg
M/E Fuel Oil Consumption	3999	kg/hr
M/E Fuel Temp. at Meter	89	°C
Ship Speed by Log	15.2	Knots
Ship Speed by GPS	14.9	Knots

## Ship performance data

Reference Fuel LHV for corrected data	10200	kcal/kg
Ship overall efficiency	263.1	kg/mile
Specific fuel rate , Actual	145.4	g/SHPhr
Specific fuel rate , Corrected	145.2	g/SHPhr
Propulsion efficiency	1.02	m/SHPhr

## Change of actual fuel consumption relative to reference condition.

Change in overall efficiency	12.76	MT/day
- Change in specific fuel rate	4.15	MT/day
- Change in propulsion efficiency	8.79	MT/day
- Other factors (wind, sea, trim etc.)	-0.18	MT/day



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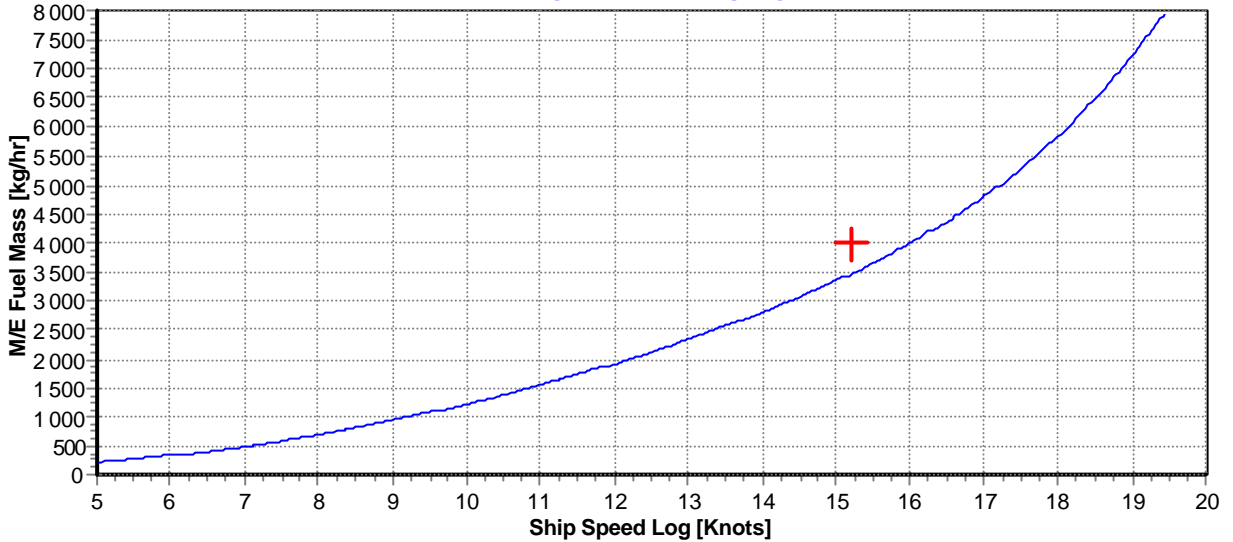
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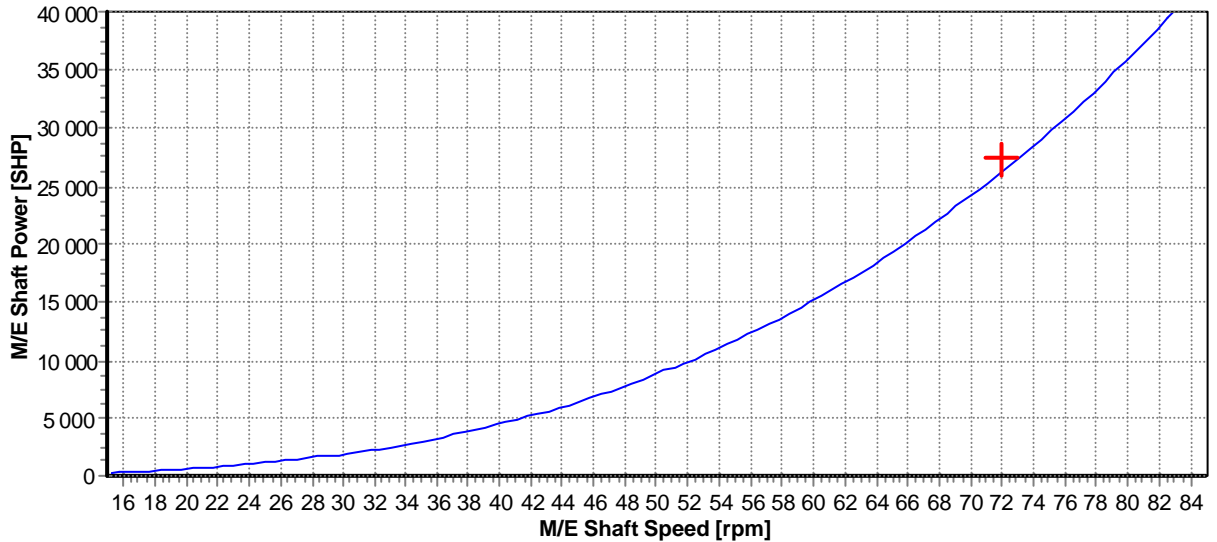
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### Fuel Consumption vs. Ship Speed



Deviation from reference plot:  
M/E Fuel Mass : 532 kg/hr

### Shaft Power vs. Revolutions



Deviation from reference plot:  
M/E Shaft Speed : -1.1 rpm    M/E Shaft Power : 1269 SHP



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