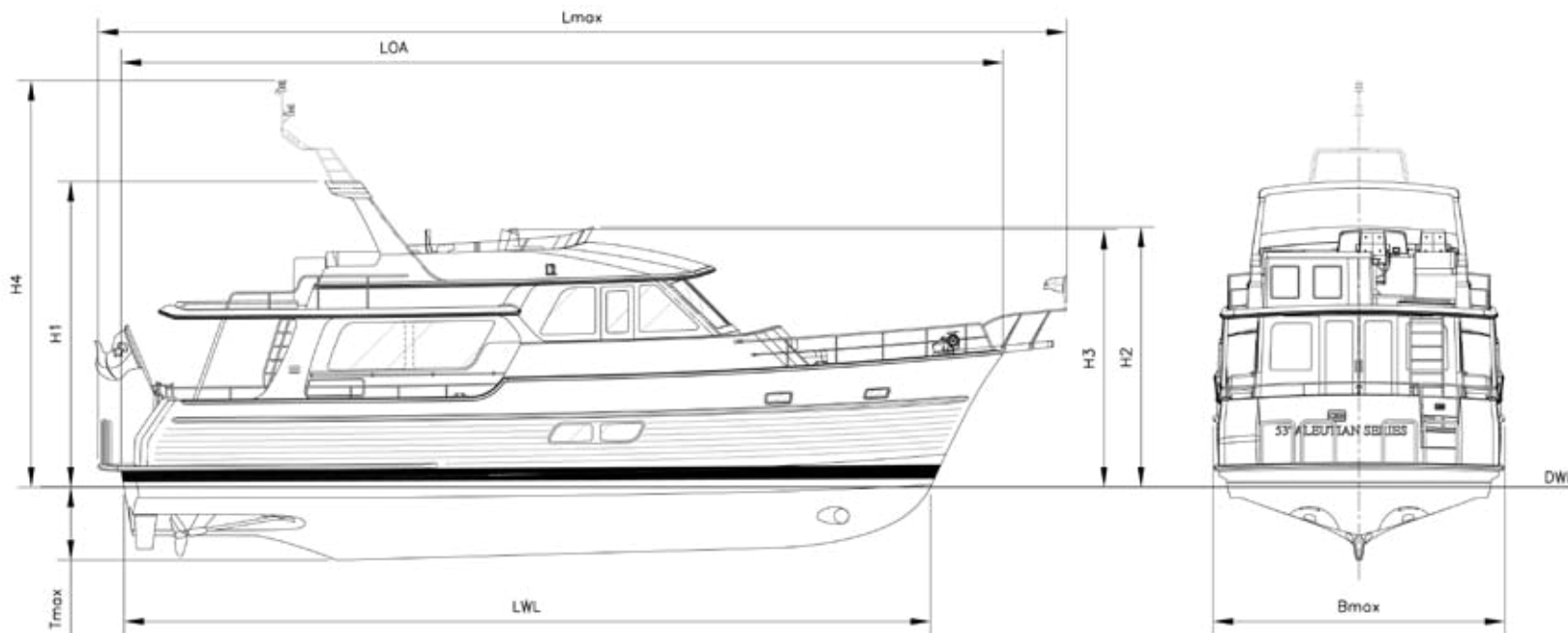




Grand Banks 53 Aleutian RP

GB

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STANDARD SPECIFICATIONS

Max Length (Lmax):	17.96 m	(58' 11")
Length Overall (LOA):	16.35 m	(53' 8")
Length Waterline (LWL):	14.96 m	(49' 1")
Max Beam (Bmax):	5.41 m	(17' 9")
T (half load):	1.40 m	(4' 8")
Displacement (no load):	29,484 Kg	(65,000 lbs)
Displacement (half load):	32,659 Kg	(72,000 lbs)
Displacement (full load):	34,020 Kg	(75,000 lbs)
Water Tank Capacity:	1,136 Liters	(300 US gals)
Fuel Tank Capacity:	3,785 Liters	(1,000 US gals)
Black Tank Capacity:	379 Liters	(100 US gals)
Grey Tank Capacity:	197 Liters	(52 US gals)

H1 (DWL to Housetop):	5.65 m	(18' 7")
H2 (DWL to top Windshield):	4.81 m	(15' 10")
H3 (DWL to Bridge Top w/o Windshield):	4.76 m	(15' 8")
H4 (DWL to Top of Mast):	7.16 m	(23' 6")
H5 (Bottom of Cradle to DWL):	(n/a)	(n/a)

ENGINE PERFORMANCE

2X (STD)	Cummins QSC 8.3 @ 600 HP
Max. Speed:	20.10 kn @ 3000 RPM
Cruise Speed:	15.82 kn @ 2600 RPM
2X (OPT #1)	Cummins QSM 11 @ 705 HP
Max. Speed:	22.70 kn @ 2500 RPM
Cruise Speed:	17.20 kn @ 2100 RPM
2X (OPT #2)	CAT C-12 ACERT @ 715 HP
Max. Speed:	22.90 kn @ 2300 RPM
Cruise Speed:	18.22 kn @ 2000 RPM



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ENGINE PERFORMANCE CURVES

Note: All figures preliminary and subject to change based on sea trial performance and adjustments.

Cummins QSC 8.3 - 593 HP

Fuel Consumption v. RPM

Speed v. RPM



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Cummins QSC 8.3 - 593 HP

Main Engines (Standard):	Twin Cummins QSC 8.3		
Power:	2 x 593 BHP @ 3000 rpm		
Gear Boxes:	ZF 286 IV		
Gear Ratio:	2.539:1		
Propellers:	31.0"(D) x 36.1"(P) x 4(B)		
Gen Set	Power:	21.5	Kw
	Fuel Rate (Half load):	0.6	USG/Hr
Water Tank Capacity:	300	USG	
Fuel Tank Capacity:	1000	USG	
People on Board:	14		
Displacement (Half load):	72,500	lbs	(50% fuel & water)

PERFORMANCE:

Maximum Speed:	20.1	kts	
Cruise Speed:	15.8	kts	@ 2600 rpm
Cruise Range:	320	nm	@ 2600 rpm

Engine Speed (RPM)	Boat Speed (Kts)	Fuel Rate /Engine (USG/Hr)	Total Fuel Consumption (USG/nm)	Boat Range (nm)	
1500	8.76	4.70	1.14	788	
1700	9.53	6.82	1.49	602	
2000	10.99	11.20	2.09	430	
2300	12.98	16.60	2.60	346	
2600	15.82	21.92	2.81	320	Cruise Speed
2800	17.89	26.40	2.98	302	
3000	20.10	32.15	3.23	279	Max. Speed

Note:

- 1) Speed is only estimated at half load.
- 2) Fuel rate is based on the propeller performance's data.
- 3) Total fuel consumption=Main Engine(s) consumption+Gen set consumption.
- 4) Range calculated with considering 90% of total fuel capacity with generator running for the entire duration.
- 5) The figure stated above is the best estimates and Grand Banks does not guarantee repeatable performance.



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ENGINE PERFORMANCE CURVES

Note: All figures preliminary and subject to change based on sea trial performance and adjustments.

Cummins QSM 11 - 705 HP

Fuel Consumption v. RPM

Speed v. RPM



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Cummins QSM11- 705 HP

Main Engines (Standard):	Twin Cummins QSM11		
Power:	2 x 705 BHP @ 2500 rpm		
Gear Boxes:	ZF 325 IV		
Gear Ratio:	2.417:1		
Propellers:	34.0"(D) x 31.0"(P) x 4(B)		
Gen Set	Power:	21.5	Kw
	Fuel Rate (Half load):	0.6	USG/Hr
Water Tank Capacity:	300	USG	
Fuel Tank Capacity:	1000	USG	
People on Board:	14		
Displacement (Half load):	74,300	lbs	(50% fuel & water)

PERFORMANCE:

Maximum Speed:	22.7	kts	
Cruise Speed:	17.2	kts	@ 2100 rpm
Cruise Range:	319	nm	@ 2100 rpm

Engine Speed (RPM)	Boat Speed (Kts)	Fuel Rate /Engine (USG/Hr)	Total Fuel Consumption (USG/nm)	Boat Range (nm)	
1200	9.03	5.12	1.20	750	
1400	10.90	10.50	1.98	454	
1700	12.18	14.15	2.37	379	
1900	14.70	18.90	2.61	345	
2100	17.20	24.00	2.83	319	Cruise Speed
2300	19.92	30.15	3.06	294	
2500	22.70	37.47	3.33	270	Max. Speed

Note:

- 1) Speed is only estimated at half load.
- 2) Fuel rate is based on the propeller performance's data.
- 3) Total fuel consumption=Main Engine(s) consumption+Gen set consumption.
- 4) Range calculated with considering 90% of total fuel capacity with generator running for the entire duration.
- 5) The figure stated above is the best estimates and Grand Banks does not guarantee repeatable performance.



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ENGINE PERFORMANCE CURVES

Note: All figures preliminary and subject to change based on sea trial performance and adjustments.

CAT C12 Acert - 705 HP

Fuel Consumption v. RPM

Speed v. RPM



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Caterpillar C12 Acert- 705 HP

Main Engines (Standard):	Twin Cat C12 Acert		
Power:	2 x 705 BHP @ 2300 rpm		
Gear Boxes:	ZF 325 IV		
Gear Ratio:	2.417:1		
Propellers:	35.0"(D) x 35.1"(P) x 4(B)		
Gen Set	Power:	21.5	Kw
	Fuel Rate (Half load):	0.6	USG/Hr
Water Tank Capacity:	300	USG	
Fuel Tank Capacity:	1000	USG	
People on Board:	14		
Displacement (Half load):	74,300	lbs	(50% fuel & water)

PERFORMANCE:

Maximum Speed:	22.9	kts	
Cruise Speed:	18.2	kts	@ 2000 rpm
Cruise Range:	326	nm	@ 2000 rpm

Engine Speed (RPM)	Boat Speed (Kts)	Fuel Rate /Engine (USG/Hr)	Total Fuel Consumption (USG/nm)	Boat Range (nm)	
1100	9.06	5.36	1.25	720	
1300	10.24	8.50	1.72	524	
1500	11.74	12.96	2.26	398	
1800	15.37	19.58	2.59	348	
2000	18.22	24.86	2.76	326	Cruise Speed
2150	20.39	29.40	2.91	309	
2300	22.90	36.27	3.19	282	Max. Speed

Note:

- 1). Speed is only estimated at half load.
- 2). Fuel rate is based on the propeller performance's data.
- 3). Total fuel consumption=Main Engine(s) consumption+Gen set consumption.
- 4). Range calculated with considering 90% of total fuel capacity with generator running for the entire duration.
- 5). The figure stated above is the best estimates and will no guarentee