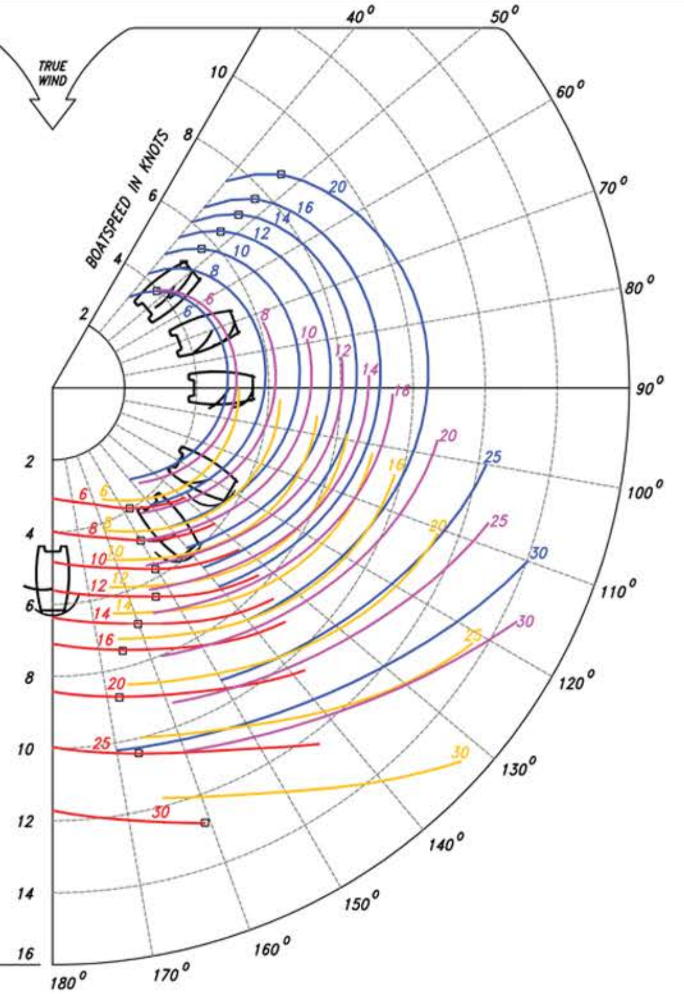
LEOPARD 46 (Cruising Version Version)

POLAR DIAGRAM

BOAT SPEED AS FUNCTION OF
TRUE WIND ANGLE & SPEED.



WIND	BEST VS Upwind	OPTIMUM TACK ANGLE	BEST VS Downwind	OPTIMUM GYBE ANGLE	BEST VS at given TWS	at TWA
6 KT.	4.06	48.0°	3.98	147.1°	5.16	90.2°
8 KT.	4.76	45.7°	4.90	149.5°	6.32	93.0°
10 KT.	5.51	45.4°	5.74	151.0°	7.38	96.1°
12 KT.	6.22	45.5°	6.49	153.0°	8.27	98.9°
14 KT.	6.90	45.7°	6.91	161.0°	9.04	101.5°
16 KT.	7.46	45.3°	7.54	164.5°	9.79	104.2°
20 KT.	8.33	44.4°	8.76	168.0°	11.42	110.7°
25 KT.	9.33	44.7°	10.42	166.8°	13.62	121.2°
30 KT.	–*	–*	142.79	160.6°	15.35	132.4°

* = Out of Range for VPP Calcs

- MAINSAIL + JIB
- MAINSAIL + CODE 0
- MAINSAIL + CODE D
- MAINSAIL + ASYM. SPI

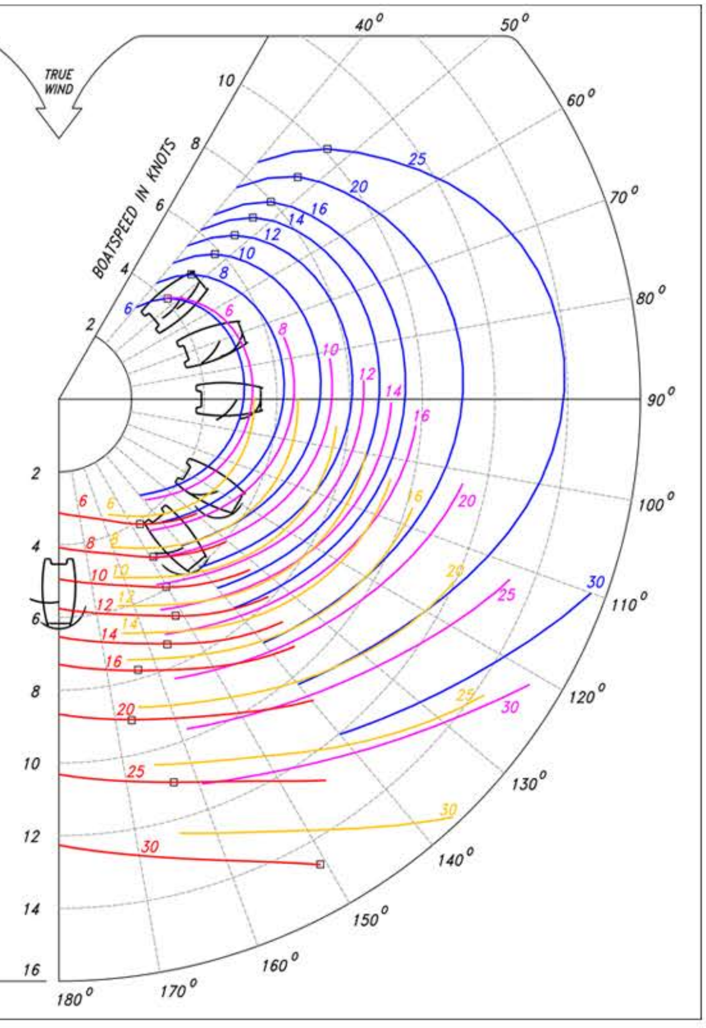
Note that each curve has been cut off at either the best theoretical cross-over or at the upper limit of the anticipated wind-strength for the headsails considered. This is a theoretical VPP in flat water. Speed can vary due to wave action. Curves are given at True windspeed measured at 10 mtr. above sea level. True Windspeed can vary significantly between 10 mtrs and what is measured at the masthead. This can further be affected by "Upwash" from the sails.

SIMONIS VOOGD

LEOPARD 46 (Performance Version)

POLAR DIAGRAM

BOAT SPEED AS FUNCTION OF
TRUE WIND ANGLE & SPEED.



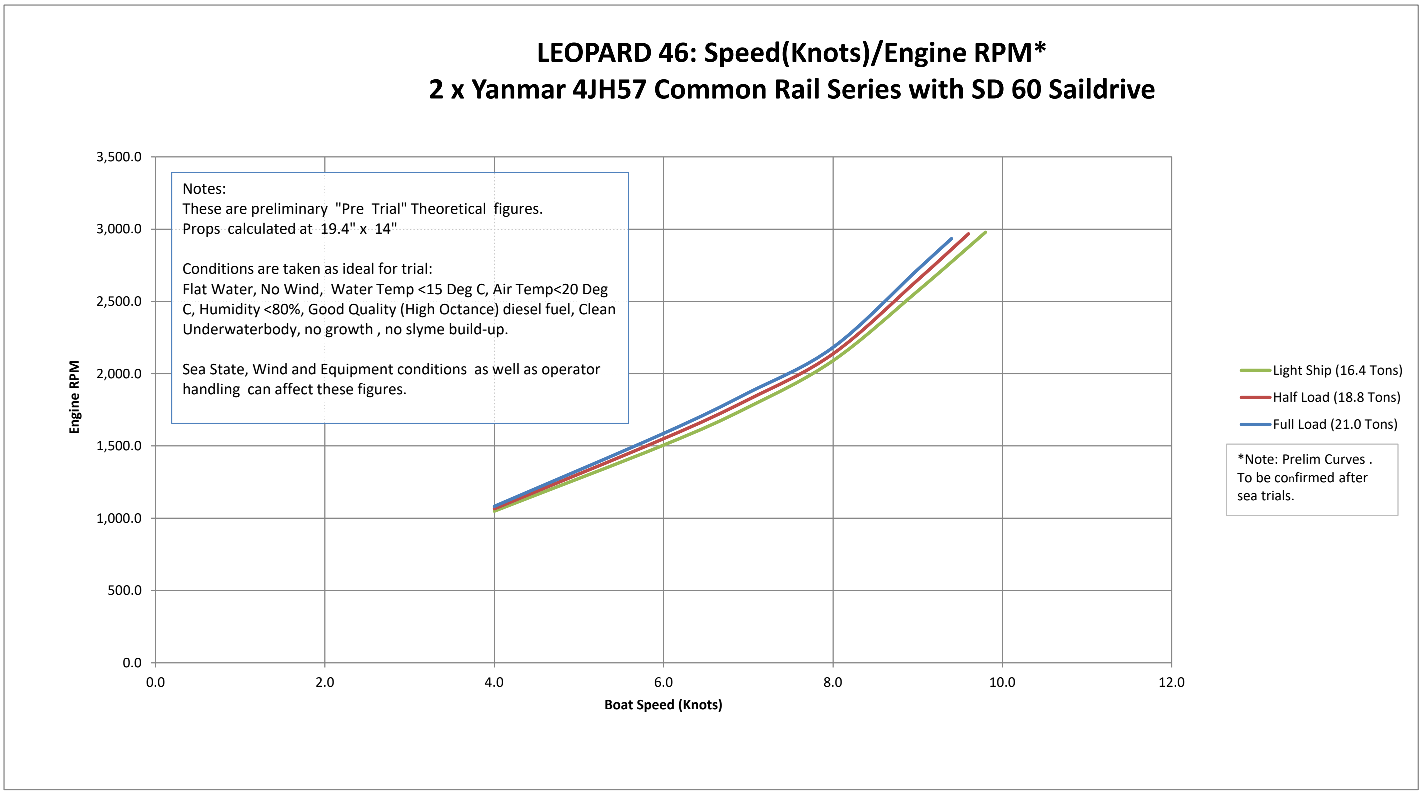
WIND	BEST VS Upwind	OPTIMUM TACK ANGLE	BEST VS Downwind	OPTIMUM GYBE ANGLE	BEST VS at given TWS	at TWA
6 KT.	4.22	48.8°	4.12	146.5°	5.37	90.0°
8 KT.	4.96	46.5°	5.05	149.3°	6.57	90.0°
10 KT.	5.76	46.3°	5.96	150.3°	7.68	95.6°
12 KT.	6.52	46.4°	6.80	151.3°	8.58	100.0°
14 KT.	7.21	46.3°	7.19	159.3°	9.38	103.5°
16 KT.	7.75	45.6°	7.76	164.0°	10.18	107.1°
20 KT.	8.67	45.0°	9.03	167.3°	11.97	114.8°
25 KT.	9.89	46.0°	12.25	149.0°	14.25	124.8°
30 KT.	–*	–*	14.79	151.1°	15.79	136.7°

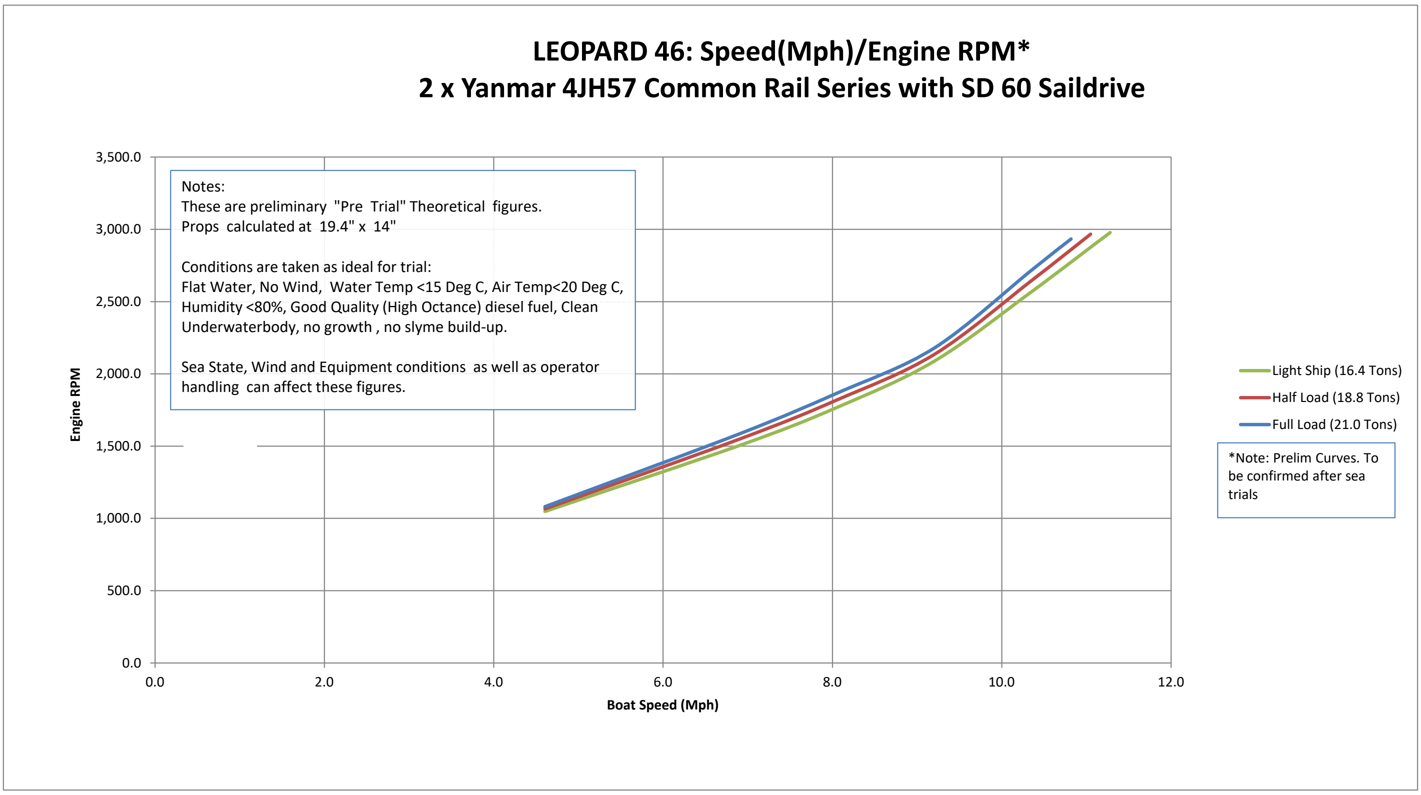
* = Out of Range for VPP Calcs

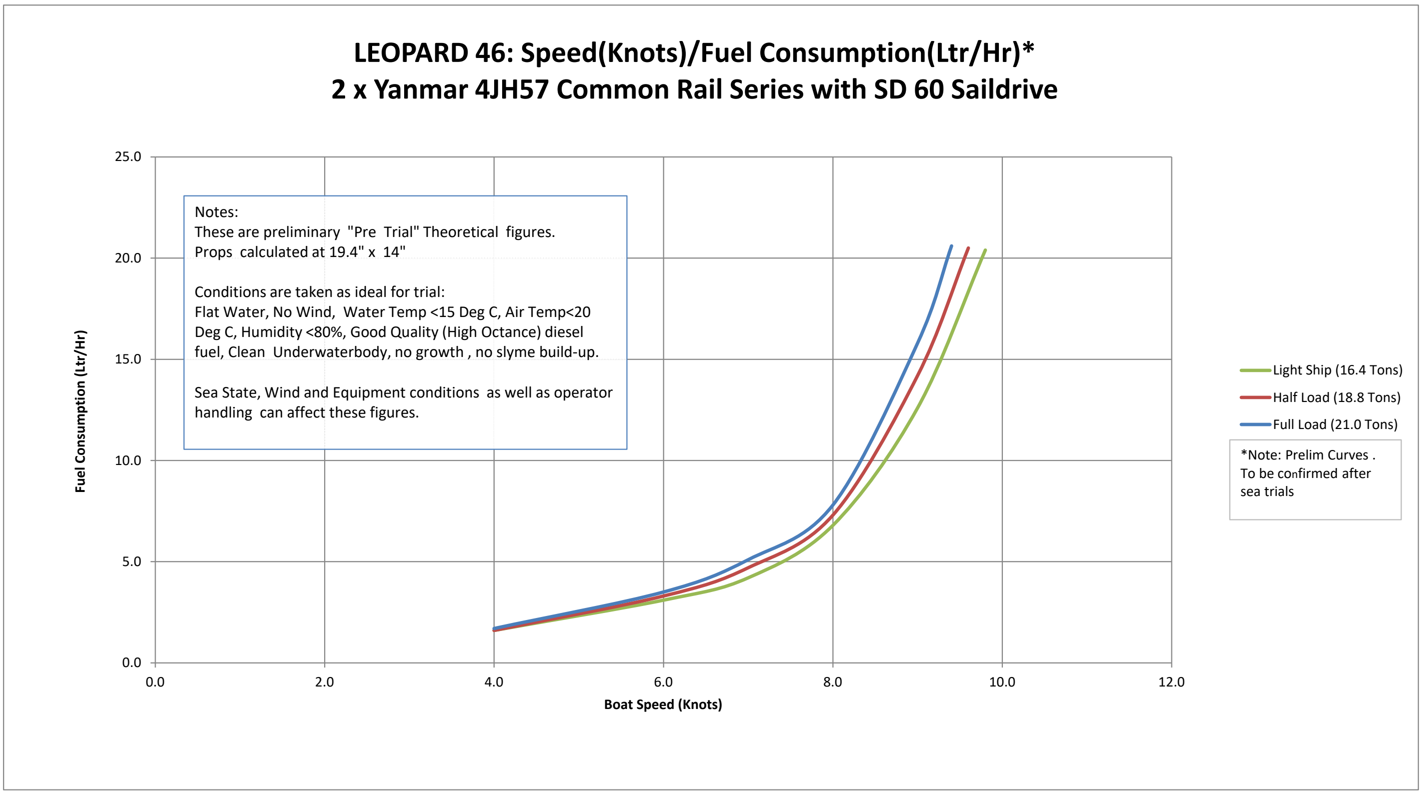
- MAINSAIL + JIB
- MAINSAIL + CODE 0
- MAINSAIL + CODE D
- MAINSAIL + ASYM. SPI

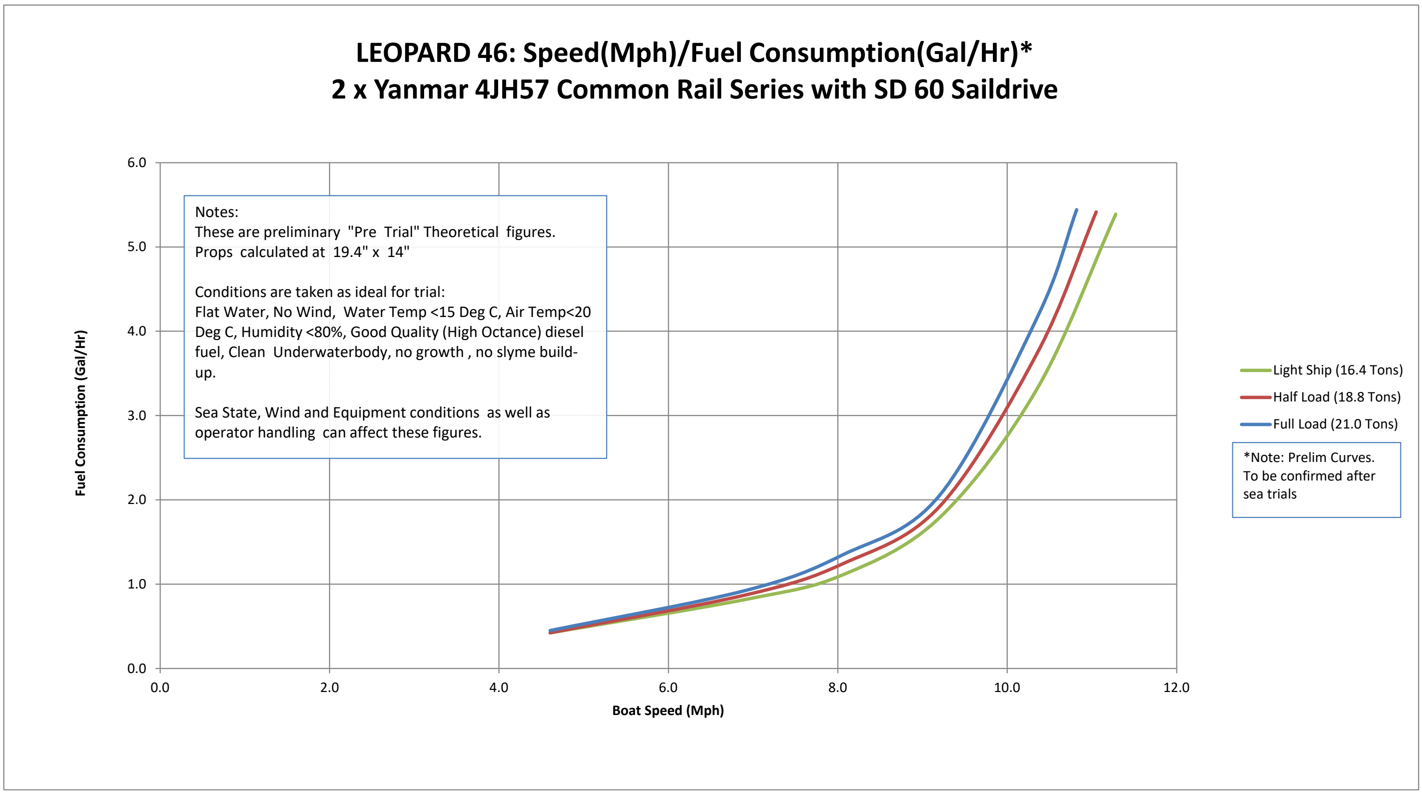
Note that each curve has been cut off at either the best theoretical cross-over or at the upper limit of the anticipated wind-strength for the headsails considered. This is a theoretical VPP in flat water. Speed can vary due to wave action. Curves are given at True windspeed measured at 10 mtr. above sea level. True Windspeed can vary significantly between 10 mtrs and what is measured at the masthead. This can further be affected by "Upwash" from the sails.

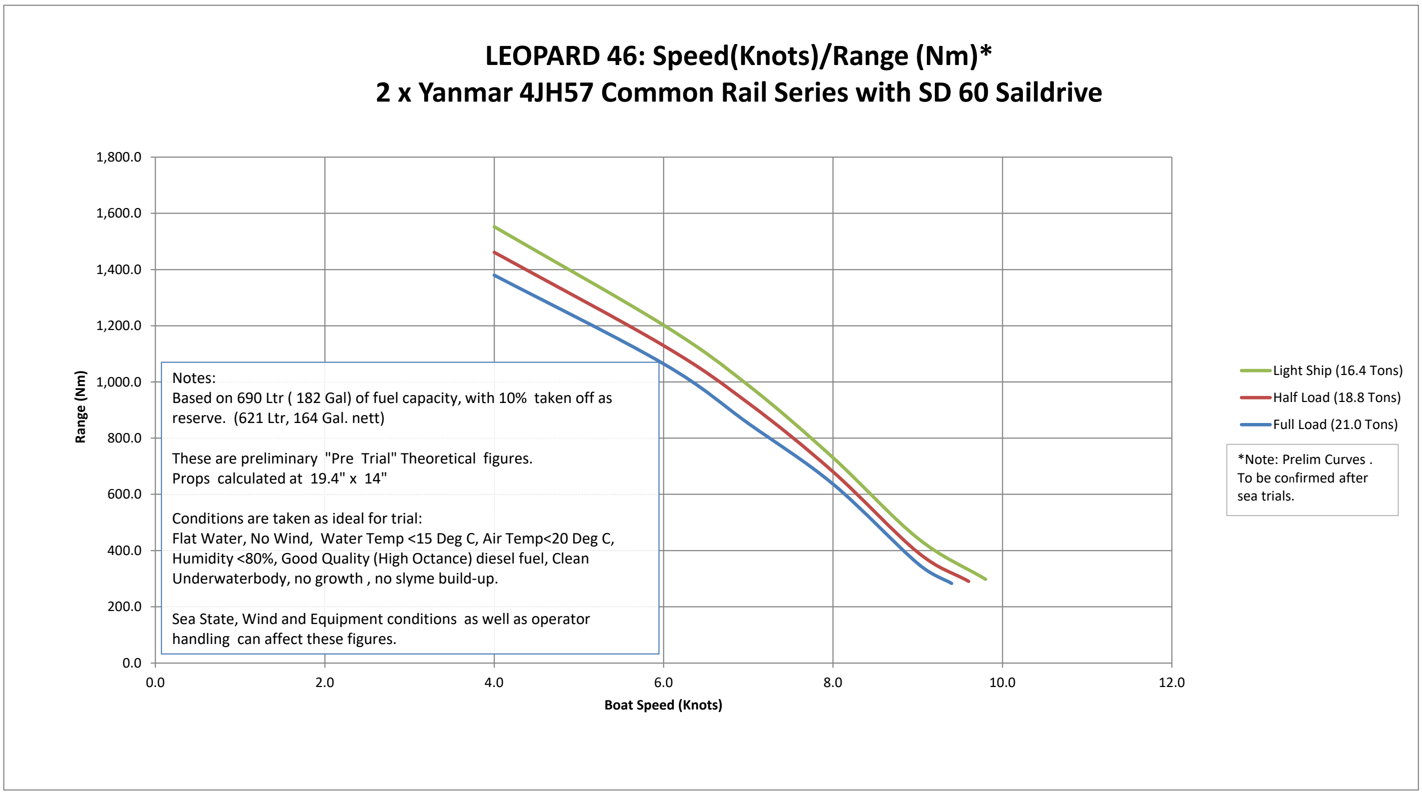
SIMONIS VOOGD


LEOPARD 46: Speed(Knots)/Engine RPM*
2 x Yanmar 4JH57 Common Rail Series with SD 60 Saildrive
Notes:
These are preliminary "Pre Trial" Theoretical figures.
Props calculated at 19.4" x 14"
Conditions are taken as ideal for trial:
Flat Water, No Wind, Water Temp <15 Deg C, Air Temp<20 Deg C, Humidity <80%, Good Quality (High Octance) diesel fuel, Clean Underwaterbody, no growth , no slyme build-up.
Sea State, Wind and Equipment conditions as well as operator handling can affect these figures.
Engine RPM
3,500.0
3,000.0
2,500.0
2,000.0
1,500.0
1,000.0
500.0
0.0
0.0
2.0
4.0
6.0
8.0
10.0
12.0
Boat Speed (Knots)
Light Ship (16.4 Tons)
Half Load (18.8 Tons)
Full Load (21.0 Tons)
*Note: Prelim Curves . To be confirmed after sea trials.


LEOPARD 46: Speed(Mph)/Engine RPM*
2 x Yanmar 4JH57 Common Rail Series with SD 60 Saildrive
Notes:
These are preliminary "Pre Trial" Theoretical figures.
Props calculated at 19.4" x 14"
Conditions are taken as ideal for trial:
Flat Water, No Wind, Water Temp <15 Deg C, Air Temp<20 Deg C, Humidity <80%, Good Quality (High Octance) diesel fuel, Clean Underwaterbody, no growth , no slyme build-up.
Sea State, Wind and Equipment conditions as well as operator handling can affect these figures.
Engine RPM
3,500.0
3,000.0
2,500.0
2,000.0
1,500.0
1,000.0
500.0
0.0
0.0
2.0
4.0
6.0
8.0
10.0
12.0
Boat Speed (Mph)
Light Ship (16.4 Tons)
Half Load (18.8 Tons)
Full Load (21.0 Tons)
*Note: Prelim Curves. To be confirmed after sea trials


LEOPARD 46: Speed(Knots)/Fuel Consumption(Ltr/Hr)*
2 x Yanmar 4JH57 Common Rail Series with SD 60 Saildrive
Notes:
These are preliminary "Pre Trial" Theoretical figures.
Props calculated at 19.4" x 14"
Conditions are taken as ideal for trial:
Flat Water, No Wind, Water Temp <15 Deg C, Air Temp<20 Deg C, Humidity <80%, Good Quality (High Octance) diesel fuel, Clean Underwaterbody, no growth , no slyme build-up.
Sea State, Wind and Equipment conditions as well as operator handling can affect these figures.
Fuel Consumption (Ltr/Hr)
25.0
20.0
15.0
10.0
5.0
0.0
0.0
2.0
4.0
6.0
8.0
10.0
12.0
Boat Speed (Knots)
Light Ship (16.4 Tons)
Half Load (18.8 Tons)
Full Load (21.0 Tons)
*Note: Prelim Curves . To be confirmed after sea trials


LEOPARD 46: Speed(Mph)/Fuel Consumption(Gal/Hr)*
2 x Yanmar 4JH57 Common Rail Series with SD 60 Saildrive
Notes:
These are preliminary "Pre Trial" Theoretical figures.
Props calculated at 19.4" x 14"
Conditions are taken as ideal for trial:
Flat Water, No Wind, Water Temp <15 Deg C, Air Temp<20 Deg C, Humidity <80%, Good Quality (High Octance) diesel fuel, Clean Underwaterbody, no growth , no slyme build-up.
Sea State, Wind and Equipment conditions as well as operator handling can affect these figures.
Fuel Consumption (Gal/Hr)
6.0
5.0
4.0
3.0
2.0
1.0
0.0
0.0
2.0
4.0
6.0
8.0
10.0
12.0
Boat Speed (Mph)
Light Ship (16.4 Tons)
Half Load (18.8 Tons)
Full Load (21.0 Tons)
*Note: Prelim Curves. To be confirmed after sea trials


LEOPARD 46: Speed(Knots)/Range (Nm)*
2 x Yanmar 4JH57 Common Rail Series with SD 60 Saildrive
Range (Nm)
1,800.0
1,600.0
1,400.0
1,200.0
1,000.0
800.0
600.0
400.0
200.0
0.0
0.0
2.0
4.0
6.0
8.0
10.0
12.0
Boat Speed (Knots)
Notes:
Based on 690 Ltr (182 Gal) of fuel capacity, with 10% taken off as reserve. (621 Ltr, 164 Gal. nett)
These are preliminary "Pre Trial" Theoretical figures.
Props calculated at 19.4" x 14"
Conditions are taken as ideal for trial:
Flat Water, No Wind, Water Temp <15 Deg C, Air Temp<20 Deg C, Humidity <80%, Good Quality (High Octance) diesel fuel, Clean Underwaterbody, no growth , no slyme build-up.
Sea State, Wind and Equipment conditions as well as operator handling can affect these figures.
Light Ship (16.4 Tons)
Half Load (18.8 Tons)
Full Load (21.0 Tons)
*Note: Prelim Curves . To be confirmed after sea trials.


LEOPARD 46: Speed(Mph)/Range (Miles)*
2 x Yanmar 4JH57 Common Rail Series with SD 60 Saildrive
Range (Miles)
2,000.0
1,800.0
1,600.0
1,400.0
1,200.0
1,000.0
800.0
600.0
400.0
200.0
0.0
0.0
2.0
4.0
6.0
8.0
10.0
12.0
Boat Speed (Mph)
Notes:
Based on 690 Ltr (182 Gal) of fuel capacity, with 10% taken off as reserve. (621 Ltr, 164 Gal. nett)
These are preliminary "Pre Trial" Theoretical figures.
Props calculated at 19.4" x 14"
Conditions are taken as ideal for trial:
Flat Water, No Wind, Water Temp <15 Deg C, Air Temp<20 Deg C, Humidity <80%, Good Quality (High Octance) diesel fuel, Clean Underwaterbody, no growth , no slyme build-up.
Sea State, Wind and Equipment conditions as well as operator handling can affect these figures.
Light Ship (16.4 Tons)
Half Load (18.8 Tons)
Full Load (21.0 Tons)
*Note: Prelim Curves. To be confirmed after sea trials