MT Aquabliss

Prepared Basis : CP Speed

madras to cbe

Dep.Date: 23-01-2024 07:00 UTC

Arrival.Date: 30-01-2024 12:00 UTC

Condition : Ballast

Report Date : 09-Feb-24

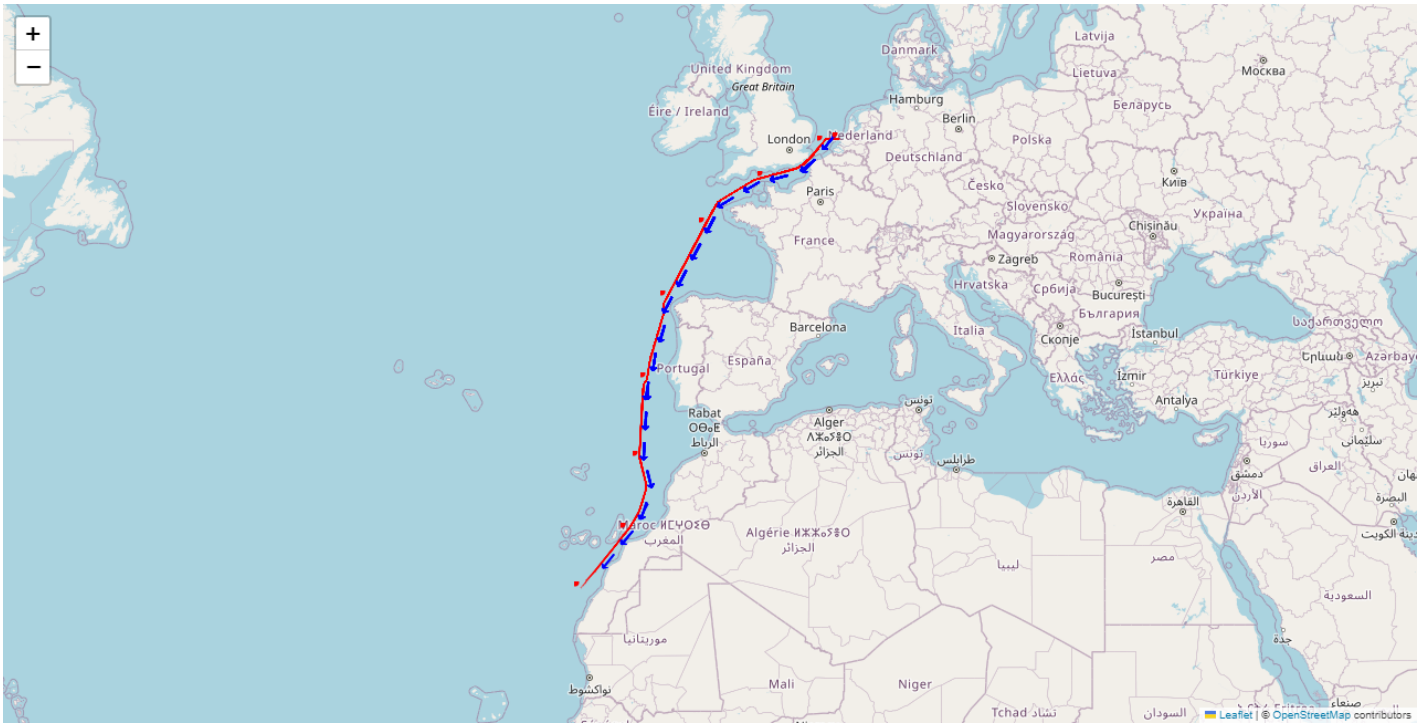
Reference No. :

VOYAGE MAP

Itinerary : madras - cbe

Voyage Leg Date(UTC) : 23-01-2024 07:00 - 30-01-2024 12:00

CP Warranties : About 12 Kts on About 24 Mts Fuel



Report Analysis Summary

Itinerary : madras - cbe

Voyage Leg Date(UTC) : 23-01-2024 07:00 - 30-01-2024 12:00

ATD(Z)	Time gain/loss	V/U/L SFO gain/loss	HSFO gain/loss	MGO gain/loss	MDO gain/loss
madras - cbe 23-01-2024 07:00	Nil	Nil	Nil	Nil	NA

Voyage Details

Leg Details	ATD(Z)	ETA(Z)	Good Weather				Performance		Overall Weather			
			Distance	Steaming Hours	Speed	Total Cons	Distance (Exc currents)	Speed	Distance	Steaming Hours	Speed	Total Cons.
madras to cbe	2024-01-23	2024-01-30	0	0	0	0.0	0.0	nan	2014	172.97	11.64	249.04
			0	0	0	0.0	0.0	nan	2014	172.97	11.64	249.04

Warranted Consumption

Leg Details	CP Speed	Total Cons.
madras to cbe	About 12 kts	About 24 MT

Report Analysis Summary

Interpretation of good weather criteria as per CP:

Weather Definition:

A noon report is counted as fair weather if majority of the noon period is good weather basis analyzed weather

- Wind Force <= 2 Bf, Significant Wave Height <= 1.0 m
- Adverse Currents are not excluded

Noon Report excluded from evaluation :

Weather Source : Analyzed

Speed used for Analysis : Performed speed

All comparisons are done against CP Speed

"About" Tolerance:

- For speed : -0.5 / +0.5 Kts
- For consumption : -5.0 / +5.0 %

Good weather performance is extrapolated to overall voyage

***Note: The calculations for the report are done on the performed speed by adjusting the effect of currents (If applicable).

Speed Summary

Itinerary : madras - cbe

Voyage Leg Date(UTC) : 23-01-2024 07:00 - 30-01-2024 12:00

CP Warranties : About 12 Kts on About 24 Mts Fuel

Overall

Total Distance Sailed	2014 NM
Time at Sea	172.97 hrs
Average Speed	11.64 kts

Good Weather

Total Distance Sailed	0 NM
Time at Sea	0 hrs
Average Speed	0.0 kts
Current Factor	0.0 kts
Performance Speed	0.0 kts
C/P Min.Allowable Time	0.0 hrs
C/P Max.Allowable Time	0.0 hrs
Track Time Loss	nan hrs
Applied to Overall Track Time Gain	0 hrs

Fuel Consumption Summary

Itinerary : madras - cbe

Voyage Leg Date(UTC) : 23-01-2024 07:00 - 30-01-2024 12:00

CP Warranties : About 12 Kts on About 24 Mts Fuel

Overall

Average Daily Consumption	27.76 mts
Total Bunkers Consumed at Sea	200.04 mts
Gradewise Distribution of Bunkers consumed at sea	
HSFO	0.0 mts
IFO	144.95 mts
GO	55.09 mts

Good Weather

Actual Usage in Good Weather	0.0 mts
Average Daily Consumption	0 mts
Min.Allowable Usage	0.0 mts
Max Allowable Usage	0.0 mts
Fuel Loss	0.0 mts
No Loss/Gain applied to overall track	0 mts

CO2 Emissions Summary

Overall

Total CO2 produced at sea (MT)	627.99 mts

Detailed Weather Analysis

Itinerary : madras - cbe

Voyage Leg Date(UTC) : 23-01-2024 07:00 - 30-01-2024 12:00

CP Warranties : About 12 Kts on About 24 Mts Fuel

Date/Time	Lat	Lon	Wind		SWH	Wind Wave	Swell		Current factor	Bad Weather Details	Report Data by Ship								
			BFT	Dir.(rel.)	Hgt(m)	(m)	Hgt (m)	Dir. (rel.)	Kts		Steaming Hours	Distance (NM)	Wind (Bft)	Current Factor (Kts)	Ordered Speed (Kts)	Avg. Speed (Kts)	RPM	Slip (%)	Course
23rd Jan 2024 07:00	**52.04**	**3.84**	**5**	**264.12**	**2.05**	**1.88**	**1.11**	**321.82**	**-0.06**		**0.00**	**0.00**	**6.00**	**0.00**	**12.00**	**0.00**	**0.00**	**0.00**	**357.00**
23rd Jan 2024 11:00	**51.89**	**2.66**	**5**	**224.72**	**1.71**	**1.46**	**0.89**	**332.64**	**0.02**		**4.00**	**49.00**	**6.00**	**0.00**	**12.00**	**12.25**	**54.80**	**0.00**	**222.00**
23rd Jan 2024 14:00			7	207.65	2.03	2.00	0.31	350.14	-0.00	WI									
23rd Jan 2024 17:00			7	223.3	2.46	2.46	0.12	6.68	-0.21	WI									
23rd Jan 2024 20:00			7	232.93	2.67	2.67	0.13	223.87	-1.14	WI									
23rd Jan 2024 23:00			8	237.66	3.33	3.33	0.16	218.07	-1.18	WI									
24th Jan 2024 02:00			8	254.04	4.25	4.25	0.29	251.68	-0.56	WI									
24th Jan 2024 05:00			7	266.61	3.96	3.96	0.70	254.69	-0.43	WI									
24th Jan 2024 08:00			6	269.52	3.22	3.04	1.22	246.41	-0.40	WI									
24th Jan 2024 11:00	**50.11**	**-2.11**	**5**	**257.25**	**2.61**	**2.46**	**1.06**	**255.01**	**-0.16**		**24.00**	**218.00**	**6.00**	**0.00**	**12.00**	**9.08**	**56.00**	**27.10**	**255.00**
24th Jan 2024 14:00			4	242.35	2.77	1.76	2.77	253.24	-0.25	WI									
24th Jan 2024 17:00			4	224.45	3.18	3.11	3.18	258.85	-0.02	WI									
24th Jan 2024 20:00			5	229.59	3.72	3.73	3.72	263.68	0.13	WI									
24th Jan 2024 23:00			5	224.52	4.05	2.06	4.05	266.57	0.19	WI									
25th Jan 2024 02:00			5	219.95	4.16	4.03	4.16	267.97	0.23	WI									
25th Jan 2024 05:00			5	207.84	4.04	3.55	4.04	270.63	-0.03	WI									
25th Jan 2024 08:00			5	210.08	3.81	1.28	3.81	270.63	-0.12	WI									
25th Jan 2024 11:00	**47.67**	**-6.78**	**5**	**221.93**	**3.52**	**1.30**	**3.52**	**272.76**	**-0.07**		**24.00**	**246.00**	**6.00**	**0.00**	**12.00**	**10.25**	**54.80**	**16.00**	**208.00**
25th Jan 2024 14:00			5	219.15	3.45	2.91	2.13	295.24	-0.15	WI									
25th Jan 2024 17:00			6	213.05	3.23	2.47	2.66	277.9	-0.21	WI									
25th Jan 2024 20:00			6	216.71	3.29	2.88	1.31	316.68	-0.26	WI									
25th Jan 2024 23:00			6	226.28	3.08	2.97	0.82	330.89	-0.04	WI									
26th Jan 2024 02:00			4	259.03	2.85	1.40	2.14	290.48	0.17	WI									
26th Jan 2024 05:00			4	339.79	2.61	2.17	2.57	275.52	0.18	WI									
26th Jan 2024 08:00			5	38.33	2.51	0.65	0.58	323.74	-0.19	WI									
26th Jan 2024 11:00	**43.65**	**-9.84**	**5**	**57.44**	**2.46**	**0.90**	**1.93**	**303.7**	**-0.18**		**23.99**	**273.00**	**2.00**	**0.00**	**12.00**	**11.38**	**55.00**	**7.10**	**208.00**
26th Jan 2024 14:00			5	46.26	2.65	1.10	2.48	290.57	0.11	WI									
26th Jan 2024 17:00			5	27.18	2.87	0.82	2.80	295.95	0.29	WI									
26th Jan 2024 20:00			4	29.41	2.99	0.84	2.97	300.83	0.05	WI									
26th Jan 2024 23:00			3	38.05	3.04	0.77	3.03	299.74	-0.09	WI									
27th Jan 2024 02:00			2	98.03	2.88	0.46	2.79	300.54	-0.25	WA									
27th Jan 2024 05:00			3	142.15	2.85	0.44	2.59	299.55	0.23	WI									
27th Jan 2024 08:00			3	167.62	2.73	0.56	2.38	300.14	0.29	WI									
27th Jan 2024 11:00	**38.74**	**-11.45**	**3**	**160.94**	**2.70**	**0.72**	**2.57**	**303.01**	**-0.12**		**24.00**	**306.00**	**3.00**	**0.00**	**12.00**	**12.75**	**55.80**	**-2.70**	**185.00**
27th Jan 2024 14:00			3	188.83	2.56	0.79	2.56	304.09	-0.14	WI									
27th Jan 2024 17:00			3	195.18	2.53	0.56	2.53	306.52	0.20	WI									
27th Jan 2024 20:00			3	184.72	2.45	0.81	2.45	307.48	0.29	WI									
27th Jan 2024 23:00			4	178.54	2.29	1.12	2.29	308.15	0.06	WI									
28th Jan 2024 02:00			4	169.49	2.18	0.79	2.18	310.01	0.25	WI									
28th Jan 2024 05:00			4	169.82	2.14	0.60	2.07	313.02	-0.16	WI									
28th Jan 2024 08:00			4	165.46	1.98	0.60	0.72	243.02	-0.34	WI									
28th Jan 2024 12:00	**33.71**	**-12.02**	**4**	**153.08**	**1.91**	**0.60**	**1.81**	**317.95**	**-0.47**		**25.00**	**303.00**	**4.00**	**0.00**	**12.00**	**12.12**	**53.60**	**-1.30**	**185.00**
28th Jan 2024 15:00			4	170.51	1.85	0.64	1.73	320.26	-0.35	WI									
28th Jan 2024 18:00			4	174.21	1.88	0.77	1.38	319.4	-0.18	WI									
28th Jan 2024 21:00			3	159.99	1.87	0.63	1.70	323.29	0.23	WI									
29th Jan 2024 00:00			2	116.58	1.74	0.63	1.64	321.37	0.06	WA									
29th Jan 2024 03:00			1	83.89	1.58	0.61	1.51	322.42	0.06	WA									
29th Jan 2024 06:00			3	74.99	1.41	0.36	1.37	324.02	-0.04	WI									
29th Jan 2024 09:00			3	86.95	1.22	0.79	1.22	327.51	-0.10	WI									
29th Jan 2024 12:00	**28.81**	**-13.05**	**3**	**131.83**	**0.76**	**0.64**	**0.75**	**333.46**	**0.01**		**23.99**	**303.00**	**3.00**	**0.00**	**12.00**	**12.63**	**54.00**	**-4.80**	**212.00**

Date/Time	Lat	Lon	Wind		SWH	Wind Wave	Swell		Current factor	Bad Weather Details	Report Data by Ship								
			BFT	Dir.(rel.)	Hgt(m)	(m)	Hgt (m)	Dir. (rel.)	Kts		Steaming Hours	Distance (NM)	Wind (Bft)	Current Factor (Kts)	Ordered Speed (Kts)	Avg. Speed (Kts)	RPM	Slip (%)	Course
29th Jan 2024 15:00			1	198.39	0.33	0.49	0.09	352.41	-0.19										
29th Jan 2024 18:00			1	327.55	0.48	0.51	0.07	211.2	0.01										
29th Jan 2024 21:00			3	16.58	0.67	0.25	0.12	246.7	0.03	WI									
30th Jan 2024 00:00			4	54.5	0.72	0.35	0.29	339.07	0.67	WI									
30th Jan 2024 03:00			4	62.46	0.78	0.41	0.19	344.99	0.30	WI									
30th Jan 2024 06:00			4	55.63	1.00	0.43	0.23	333.98	-0.27	WI									
30th Jan 2024 09:00			4	68.44	1.29	0.51	0.16	221.84	0.50	WI									
30th Jan 2024 12:00	**24.70**	**-16.70**	**3**	**79.73**	**1.51**	**0.53**	**0.14**	**201.69**	**0.41**		**23.99**	**316.00**	**4.00**	**0.00**	**12.00**	**13.17**	**54.90**	**-7.50**	**221.00**

Good Weather Summary

Itinerary : madras - cbe

Voyage Leg Date(UTC) : 23-01-2024 07:00 - 30-01-2024 12:00

CP Warranties : About 12 Kts on About 24 Mts Fuel

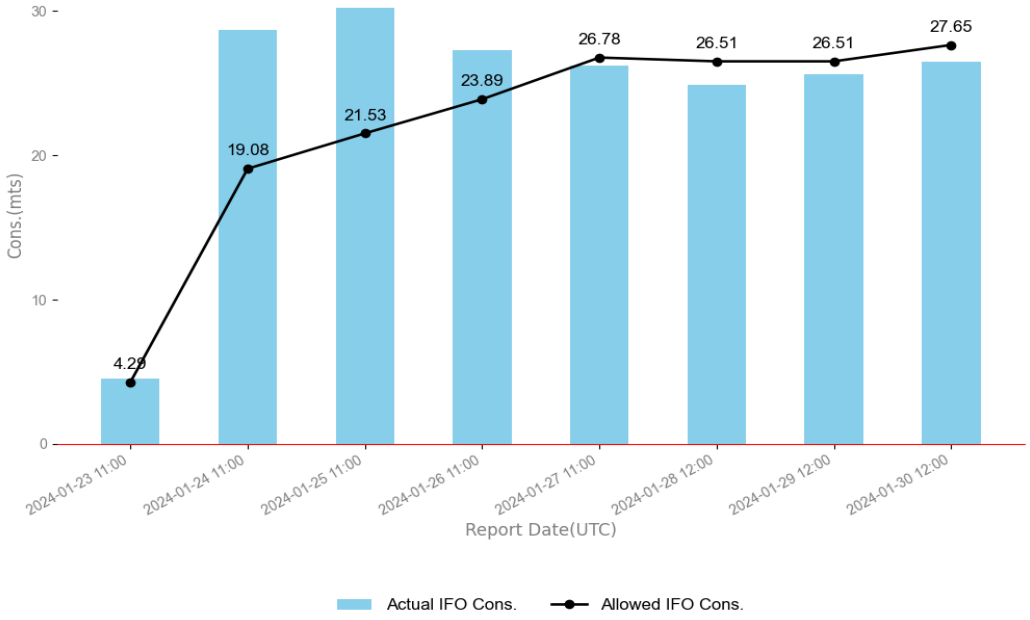
Date	Lat	Log	Steaming Hours	Allowed Steaming Hours	Distance (NM)	Avg - RPM	Slip (%)	Course	Bunker ROB (MT)				Bunker Cons. (MT)				Allowed Cons. MT	Good Weather
									HSFO	VULSFO	MGO	MDO	HSFO	VULSFO	MGO	MDO		
23rd Jan 2024 07:00	COSP	madras	0.00	0.00	0	0.00	0.00	357	0.00	1398.13	293.87	0.00	0.00	0.00	0.00	0.00	0.00	NO
23rd Jan 2024 11:00	51.89	2.66	4.00	4.26	49	54.80	0.00	222	0.00	1398.13	288.87	0.00	0.00	0.00	5.00	0.00	4.29	NO
24th Jan 2024 11:00	50.11	-2.11	24.00	18.96	218	56.00	27.10	255	0.00	1398.13	256.87	0.00	0.00	0.00	32.00	0.00	19.08	NO
25th Jan 2024 11:00	47.67	-6.78	24.00	21.39	246	54.80	16.00	208	0.00	1383.68	238.98	-0.04	0.00	14.45	17.89	0.00	21.53	NO
26th Jan 2024 11:00	43.65	-9.84	23.99	23.74	273	55.00	7.10	208	0.00	1356.38	238.94	0.00	0.00	27.30	0.04	0.00	23.89	NO
27th Jan 2024 11:00	38.74	-11.45	24.00	26.61	306	55.80	-2.70	185	0.00	1330.18	238.90	0.00	0.00	26.20	0.04	0.00	26.78	NO
28th Jan 2024 12:00	33.71	-12.02	25.00	26.35	303	53.60	-1.30	185	0.00	1305.28	238.86	0.00	0.00	24.90	0.04	0.00	26.51	NO
29th Jan 2024 12:00	28.81	-13.05	23.99	26.35	303	54.00	-4.80	212	0.00	1279.68	238.82	0.00	0.00	25.60	0.04	0.00	26.51	NO
30th Jan 2024 12:00	EOSP	cbe	23.99	27.48	316	54.90	-7.50	221	0.00	1253.18	238.78	0.00	0.00	26.50	0.04	0.00	27.65	NO

Message Traffic

Report Type	Position		Date/ Time (GMT)	Since last report								DTG (NM)	ETA (LT)	BROB(MT)				Remarks
	Lat	Log		Avg Wind (Dir. x Bft)	Avg Sea (Dir. x Height)	Ordered Speed (Kts)	Avg. Speed (Kts)	Course	RPM	Slip (%)	Distance Sailed (NM)			HSFO	V/ULSFO	MGO	MDO	
Departure-madras	52.04	3.84	23rd Jan 2024 07:00	W x 6	SW x 2.0	12	0.00	357	0.00	0.00	0	4528	0700H LT 08 FEB 2024	0	1398.13	293.87	0	
NOON	51.89	2.66	23rd Jan 2024 11:00	W x 6	W x 2.0	12	12.25	222	54.80	0.00	49	4479	0700H LT 08 FEB 2024	0	1398.13	288.87	0	
NOON	50.11	-2.11	24th Jan 2024 11:00	WSW x 6	WSW x 1.5	12	9.08	255	56.00	27.10	218	4261	1800H LT 09 FEB 2024	0	1398.13	256.87	0	
NOON	47.67	-6.78	25th Jan 2024 11:00	SW x 6	SW x 3.5	12	10.25	208	54.80	16.00	246	4015	1800H LT 09 FEB 2024	0	1383.68	238.98	0	
NOON	43.65	-9.84	26th Jan 2024 11:00	SE x 2	SW x 2.4	12	11.38	208	55.00	7.10	273	3742	1800H LT 09 FEB 2024	0	1356.38	238.94	0	
NOON	38.74	-11.45	27th Jan 2024 11:00	S x 3	S x 2.5	12	12.75	185	55.80	-2.70	306	3436	0600H LT 09 FEB 2024	0	1330.18	238.90	0	
NOON	33.71	-12.02	28th Jan 2024 12:00	SSE x 4	SSE x 0.7	12	12.12	185	53.60	-1.30	303	3133	2200H LT 08 FEB 2024	0	1305.28	238.86	0	
NOON	28.81	-13.05	29th Jan 2024 12:00	SSE x 3	SSE x 0.7	12	12.63	212	54.00	-4.80	303	2830	1200H LT 08 FEB 2024	0	1279.68	238.82	0	
Arrival-cbe	24.70	-16.70	30th Jan 2024 12:00	NE x 4	NE x 0.5	12	13.17	221	54.90	-7.50	316	2472	0800H LT 08 FEB 2024	0	1253.18	238.78	0	

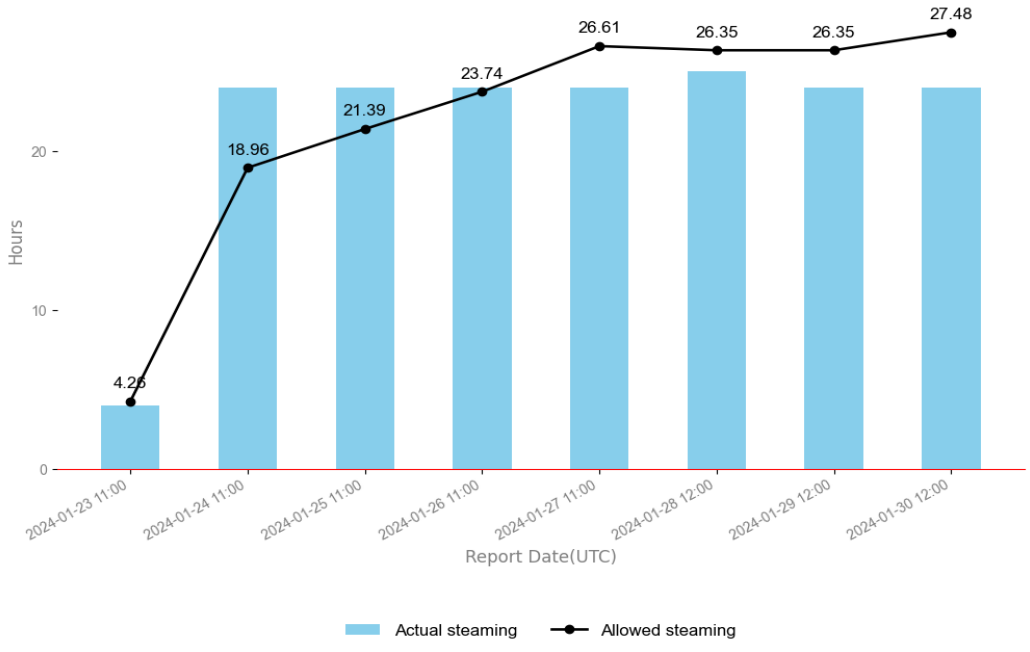
Fuel Graph

Comparison between Actual vs Allowed IFO Cons.



Steaming Graph

Comparison between Actual vs Allowed Steaming



Annex A - Speed Calculation Detail

1 Min. C/P allowable time (hrs)

$$= \frac{\text{Distance in Good Weather(NM) - (+/- Current Factor} \times \text{Actual Time in Good Weather)(NM)}}{\text{(Warranted Speed (kts) + Min. Speed Tolerance (kts))}}$$

2 Max. C/P allowable Time (hrs)

$$= \frac{\text{Distance in Good Weather(NM) -(+/- Current Factor} \times \text{Actual Time in Good Weather)(NM)}}{\text{(Warranted Speed (kts) - Max. Speed Tolerance (kts))}}$$

3 Track Time Gain = Min. C/P allowable time (hrs) - Actual Time in Good Weather (hrs)

4 Track Time Loss = Max. C/P allowable time(hrs) - Actual Time in Good Weather (hrs)

5 Track Time is applied to Overall Track Time

$$= \left[\frac{\text{Good Weather gain/Loss track time(hrs)}}{\text{Good Weather Distance (NM)}} \right] \times \text{Total Voyage Distance (NM)}$$

Annex B - Fuel Consumption Calculation Detail

Distance adjusted for current (NM)

= Distance in Good Weather (NM) - (+/- Current Factor × Actual Time in Good Weather)(NM)

1 Min. Allowable Usage (mts)

$$= \left[\frac{\text{Distance adjusted for current (NM)}}{\text{(C/P Speed - Min. Speed Tolerance(kts) *24}} \right] \times \text{Daily C/P allowable Consumption} \times (1\text{-About \%})$$

2 Max Allowable Usage (mts)

$$= \left[\frac{\text{Distance adjusted for current (NM)}}{\text{(C/P Speed - Min. Speed Tolerance(kts) *24}} \right] \times \text{Daily C/P allowable Consumption} \times (1\text{+About \%})$$

3 Good Weather Fuel Gain

= Min. Allowable Usage (mts) - Actual Usage in Good Weather (mts)

4 Good Weather Fuel Loss

= Max. Allowable Usage (mts) - Actual Usage in Good Weather (mts)

5 Good Weather Fuel Gain/Loss Consumption applied to overall track

$$= \left[\frac{\text{Good Weather Fuel gain/Loss Consumption (mts)}}{\text{Good Weather Distance (NM)}} \right] \times \text{Total Voyage Distance (NM)}$$

Annex C - CO2 Emission Calculation Detail

Total CO2 produced at sea (MT) = Σ(bunker consumed x CO2 factor for particular grade)

*all CO2 factors are considered as mentioned in IMO GHG Study 2020 (pg.74; Table 21)

Weather DataSources

Our weather forecast is based on data from several sources including NOAA server along with two other agencies.The weather projection model consist of 05 days accurate weather forecast along with 09 days extended forecast. For subsequent days,information from historical weather database is used.

WAVEWATCH III for Wind/Waves/Swell

WAVEWATCH III is a third generation multi-grid wave model at NOAA/NCEP in the spirit of WAM model.

Update Interval : 6 Hours
Average Resolution Time : 3 Hours
Time Period : 5 Days
Provider : NOAA (National Oceanic & Atmospheric Administration

GEFS (Global Ensemble Forecast System) for Wind/Waves/Swell

The Global Ensemble Forecast System (GEFS) is a weather forecast model made up of 21 separate forecast or ensemble members.

Update Interval : 6 Hours
Average Resolution Time : 3 Hours
Time Period : 16 Days
Provider : NOAA (National Oceanic & Atmospheric Administration

Copernicus Marine Environment Monitoring Service- for Sea Currents

The Copernicus Marine Environment Monitoring Service is part of the Copernicus Pro- gramme, which is an EU Programme managed by the European Commission (EC) and implemented in partnership with the Member States, the European Space Agency (ESA), the European Organisation for the Exploitation of Meteorological Satellites (EUMETSAT), the European Centre for medium-range Weather Forecasts (ECMWF), EU Agencies and Mercator Ocean. The Programme is aimed at developing a set of European information services based on satellite Earth Observation and in-situ (non-space) data.

Spatial Resolution : 0.08 degree (Lat) x 0.08 degree (Lon)
Temporal Resolution : Hourly mean
Time Period : 7 Days
Provider : Copernicus