


# WNI Voyage Audit Report Sample

- Graphical representation is employed so that damages assessment (Loss, Saving) and the degree of set-off saving can be intuitively and quickly understood.



WEATHERNEWS INC.  
Global Center

## Voyage Audit Report

WNI Route Number: SID20220901  
Report created September 01, 2022

<b>Vessel Name:</b>	WNI WING (WNIW)	
<b>Prepared for:</b>	Weathernews Inc.	
<b>Departure:</b>	ZHOUSHAN	August 01, 2022 0000 UTC
<b>Arrival:</b>	TANJUNG BARA	September 01, 2022 0000 UTC
<b>Voyage No:</b>	026B	
<b>Ship Type:</b>	BULK CARRIER	
<b>Loading Conditions:</b>	Ballast	

**Good Weather Definition**

Wind force Beaufort Force 4, Significant wave height 2.00 meters (Douglas Sea State 3), no adverse current

	Time	FO	DO
(1) ZHOUSHAN to TANJUNG BARA (Economical speed)	Lost	No Time Lost	No Diesel Oil Over-consumption/ Saving
	Saved	5.39 MT	
	CP Warranty	about 12.50 Knots	about 25.00 MT/day

**Remarks**

(1) ZHOUSHAN to TANJUNG BARA (Economical speed)

**Exclusion**

The following time, distance and amount of consumed fuel have been excluded from the Performance Speed Evaluation.

	Date/Time	Duration(hrs)	Distance(nm)	FO(MT)	DO/GO(MT)
1	08/30/2022 0300Z - 08/31/2022 0000Z	21.0	69	6.80	0.00

1 VESSEL REDUCED/ADJUSTED SPD AS PER MSG/INSTRUCTION RCVD FROM CHARTER TO ARRIVE TBCT P/S 1800HRS 31-08-2022

**Notes**

Good Weather Performance is analyzed during periods of good weather conditions, where all periods between vessel's reports are good weather condition.

# Speed and Consumption Calculation

WNI Route Number: SID20220901  
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## ZHOUSHAN to TANJUNG BARA (Economical speed)

### A. Good Weather Analysis

The following days were analyzed as 'Good Weather Days'.

August 31 0000Z - 31 0400Z

	Good Weather		All Weather	
	out of ECA	in ECA	out of ECA	in ECA
Distance Sailed [Miles]	58	0	1798	0
Time en Route [Hours]	4.0	0.0	151.3	0.0
Average Speed [Knots]	14.00	-	11.88	-
Fuel Consumption [MT]	4.45	-	151.92	-
Averaged Daily FO Consumption	26.70	-	24.10	-
Diesel Consumption [MT]	0.00	-	0.00	-
Averaged Daily Diesel Consumption	0.00	-	0.00	-

\*In ECA\* refers to the area where the bunker type is changed over.

Total Distance: 1798 [Miles]    Good Weather Time: 4.0 [Hours]

Good Weather Average Speed:                    14.00    Knots  
Good Weather Current Factor:                    Negated

Good Weather Performance Speed: 14.00 Knots

### B. Time Calculation

Time loss or gained is calculated by comparing (a) Total Time at Good weather Performance Speed to (b) and (c) listed below. Time loss calculation (b) applies minus 0.5 knot allowance for "about", an effective warranted speed of 12.00 knots has been used, while no allowance in (c) time gained calculation.

Total Time at Good Weather Performance Speed	=	$\frac{\text{Total Distance}}{\text{Good Weather Performance Speed}}$	(a)
Total Time at Warranted Speed - 0.5 knots	=	$\frac{\text{Total Distance}}{\text{Warranted Speed - 0.5 knots}}$	(b)
Total Time at Warranted Speed	=	$\frac{\text{Total Distance}}{\text{Warranted Speed}}$	(c)
Time Lost = (a) - (b)    Time Gained = (c) - (a)			

$$\text{Time Gained} = \frac{1798}{12.50} - \frac{1798}{14.00} = 143.84 - 128.43 = 15.4 \text{ Hours}$$

Conclusion: No Time Lost

**C. Consumption Calculation**

Unless otherwise specified, the fuel over-consumption assessment as well as fuel under-consumption assessment employ a 5% tolerance. Effective warranted consumption

Fuel over-consumption: 26.25 MT (a plus 5% tolerance applied) and 0.00 MT DO/GO (a plus 5% tolerance applied)

Fuel under-consumption: 23.75 MT (a minus 5% tolerance applied) and 0.00 MT DO/GO (a minus 5% tolerance applied)

Entire Voyage Consumption using vessel Good Weather Consumption	=	$\left[ \frac{\text{Total Distance}}{\text{Good Weather Performance Speed}} \times \frac{\text{Good Weather Consumption}}{\text{Good Weather Time}} \right]$	(d)
Maximum Warranted Consumption for over-consumption	=	$\left[ \frac{\text{Total Distance}}{\text{Warranted Speed} - 0.5 \text{ knots}} \times \frac{\text{Warranted Consumption} + \text{Tolerance}}{24 \text{ hours}} \right]$	(e)
Minimum Warranted Consumption for fuel saving	=	$\left[ \frac{\text{Total Distance}}{\text{Warranted Speed} - 0.5 \text{ knots}} \times \frac{\text{Warranted Consumption} - \text{Tolerance}}{24 \text{ hours}} \right]$	(f)
Fuel Over-consumption = (d) - (e)		Fuel Saving = (f) - (d)	

**(1) Fuel Oil**

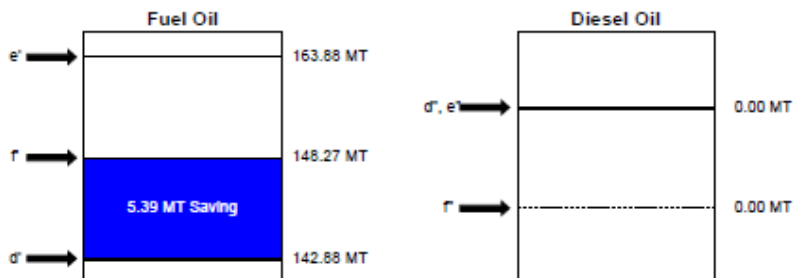
Entire Voyage Consumption using vessel Good Weather Consumption	=	$\frac{1798}{14.00} \times \frac{4.45}{4.0}$	=	142.88 MT	(d')
Maximum Warranted Consumption for over-consumption	=	$\frac{1798}{12.00} \times \frac{26.25}{24.0}$	=	163.88 MT	(e')
Minimum Warranted Consumption for fuel saving	=	$\frac{1798}{12.00} \times \frac{23.75}{24.0}$	=	148.27 MT	(f')
Fuel Oil Saving = (f') - (d')	=	148.27 - 142.88	=	5.39 MT	

**Conclusion: 5.39 MT Fuel Oil Saving**

**(2) Diesel Oil**

Entire Voyage Consumption using vessel Good Weather Consumption	=	$\frac{1798}{14.00} \times \frac{0.00}{4.0}$	=	0.00 MT	(d'')
Maximum Warranted Consumption for over-consumption	=	$\frac{1798}{12.00} \times \frac{0.00}{24.0}$	=	0.00 MT	(e'')
Minimum Warranted Consumption for fuel saving	=	$\frac{1798}{12.00} \times \frac{0.00}{24.0}$	=	0.00 MT	(f'')

**Conclusion: No Diesel Oil Over-consumption/Saving**



- 3 hourly weather/ current analysis data will be employed for CP good weather days assessment.

## Speed and Weather Analysis



Departure: ZHOUSHAN		29.63N 122.80E				
Arrival: TANJUNG BARA		0.55N 117.85E				
Seg	Periods	Distance (nm)	Time (hrs)	Average Speed (kts)	Total Consumption (mt)	
					FO	DO/GO
1	Entire period	1738	151.3	11.88	151.92	0.00
	Good weather period	56	4.0	14.00	4.45	0.00
	Adverse weather period	1742	147.3	11.83	147.47	0.00
	Excluded period	69	21.0	3.29	6.80	0.00

Charter Party defined Good Weather Days
  Charter Party defined Adverse Weather Days
  Excluded periods from analysis
 \* Ship reported positions

Seg	DATE	TIME (UTC)	POSITIONS		CP Speed	WEATHERNEWS ANALYSIS										SHIP REPORTED DATA						
			LAT	LON		SPEED (kts)	DISTANCE (nm)	WIND			Sea HT (m)	SWELL		SIG. WAVE (m)	CURRENT		SPEED (kts)	DISTANCE (nm)	WIND		Sea (m)	
								DIR	SPEED (kts)	BF		DIR	HT (m)		DIR	FAC (kts)			DIR	BF		
1	08/24	11:12	29.63N	122.80E	12.50			NNW	1	1	0.1	SSE	0.8	0.8	WSW	0.15						
	08/24	12:00	29.50N	122.81E				E	3	1	0.1	SSE	1.0	1.0	NNE	-0.52						
	08/24	15:00	29.00N	122.85E				SSE	11	4	0.4	SSE	1.0	1.1	ENE	-0.54						
	08/24	18:00	28.50N	122.89E				S	13	4	0.7	SSE	1.7	1.9	E	-0.12						
	08/24	21:00	28.00N	122.93E				S	15	4	0.9	SSE	1.9	2.0	N	-0.61						
	08/25	00:00	27.50N	122.97E				SW	14	4	0.7	S	2.2	2.3	NE	-0.39						
	08/25	03:00	27.00N	123.02E				WSW	15	4	0.5	S	2.2	2.3	E	0.13						
	08/25	04:00	26.83N	123.03E			10.0	168.2	W	14	4	0.5	S	2.2	2.2	E	-0.02	10.1	169			
	08/25	06:00	26.47N	123.03E					WSW	15	4	0.6	S	1.9	1.9	ESE	0.30					
	08/25	09:00	25.93N	123.03E					SW	11	4	0.3	S	1.9	1.9	NE	-1.11					
	08/25	12:00	25.38N	123.02E					WSW	11	4	0.4	SSW	1.7	1.8	NE	-1.61					
	08/25	15:00	24.84N	122.99E					WSW	9	3	0.3	SSW	1.8	1.8	NE	-0.96					
	08/25	18:00	24.33N	122.79E					SSW	10	3	0.2	SSW	1.5	1.5	N	-0.98					
	08/25	21:00	23.79N	122.57E					SSW	6	2	0.4	SSW	1.5	1.5	NNE	-1.08					
	08/26	00:00	23.25N	122.37E					SE	7	3	0.1	SW	1.3	1.3	N	-0.64					
	08/26	03:00	22.71N	122.16E					SSE	9	3	0.2	SW	1.3	1.3	NNE	-0.73					
	08/26	04:00	22.53N	122.09E			11.1	267.2	SSE	9	3	0.3	SW	1.4	1.4	NE	-0.62	11.4	111	SSW	5	2.0
	08/26	06:00	22.12N	122.04E					SW	11	4	0.2	WSW	1.3	1.3	NE	-0.89					
	08/26	09:00	21.53N	121.84E					W	13	4	0.5	WSW	1.3	1.4	NNE	-0.68					
	08/26	12:00	20.97N	121.55E					WNW	15	4	0.6	WSW	1.2	1.4	NE	-0.60					
	08/26	15:00	20.44N	121.21E					WNW	11	4	0.4	WSW	1.1	1.2	N	-0.93					
	08/26	18:00	19.91N	120.87E					NW	9	3	0.3	WSW	0.9	0.9	W	0.18					
	08/26	21:00	19.37N	120.54E					NNW	6	2	0.1	WSW	0.8	0.8	SE	0.34					
	08/27	00:00	18.82N	120.25E					NNE	6	2	0.1	WSW	0.7	0.7	NNW	-0.50					
	08/27	03:00	18.22N	120.10E					NE	9	3	0.3	WSW	0.7	0.8	NW	-0.34					
	08/27	04:00	18.02N	120.05E			12.4	287.9	NE	11	4	0.4	WSW	0.7	0.8	NW	-0.17	12.3	286	N	5	2.0

## Fuel Consumption Analysis



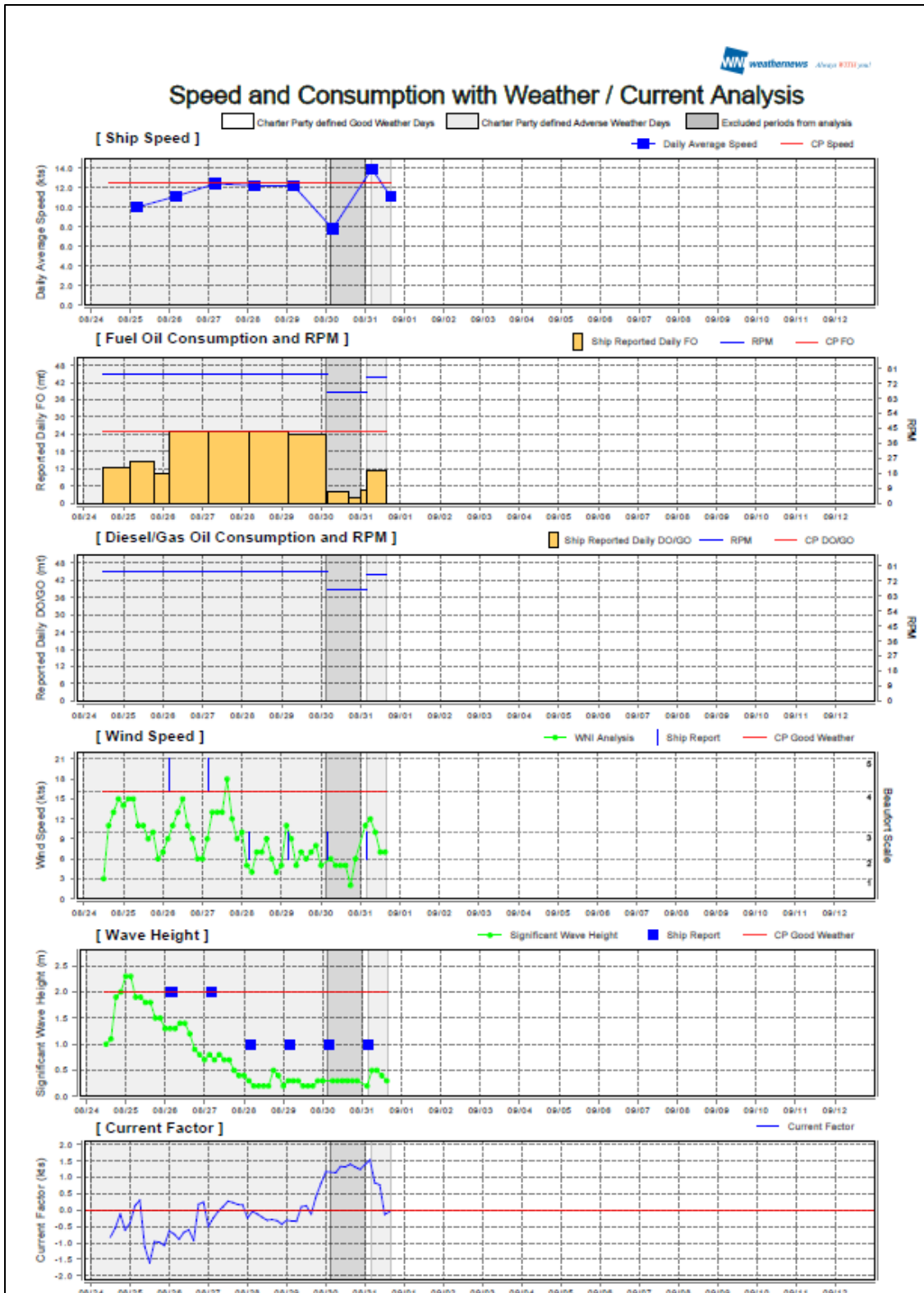
Departure: ZHOUSHAN 29.63N 122.80E  
 Arrival: TANJUNG BARA 0.55N 117.85E

Seg	Periods	Distance (nm)	Time (hrs)	Average Speed (kts)	Total Consumption (mt)			
					FO		DO/GO	
					over 0.1 %	max 0.1 %	over 0.1 %	max 0.1 %
1	Entire period	1798	151.3	11.88	151.92	0.00	0.00	0.00
	Good weather period	56	4.0	14.00	4.45	0.00	0.00	0.00
	Adverse weather period	1742	147.3	11.83	147.47	0.00	0.00	0.00
	Excluded period	69	21.0	3.29	6.80	0.00	0.00	0.00

Charter Party defined Good Weather Days
  Charter Party defined Adverse Weather Days
  Excluded periods from analysis
 S : SOGP report
N : NOON report
E : EOGP report

Seg	DATE	TIME (UTC)	POSITIONS		CP		BROB				Daily Consumption				RPM	Inside ECA	
			LAT	LON	FO (mt)	DO/GO (mt)	FO		DO/GO		FO		DO/GO				
							over 0.1 %	max 0.1 %	over 0.1 %	max 0.1 %	over 0.1 %	max 0.1 %	over 0.1 %	max 0.1 %			
1	S 08/24	11:12	29.63N	122.80E	25.00	-	514.72			353.20							In ECA
	N 08/25	04:00	26.83N	123.03E			502.27			353.20	12.45				0.00	78.0	
	08/25	18:18	24.28N	122.76E			487.67			353.20	14.60				0.00		
	N 08/26	04:00	22.53N	122.09E			477.60		0.00	353.20	10.07				0.00	78.0	
	N 08/27	04:00	18.02N	120.05E			452.60			353.20	25.00		0.00		0.00	78.0	
	N 08/28	04:00	13.22N	120.15E			427.60			353.20	25.00				0.00	78.0	
	N 08/29	04:00	8.41N	120.38E			402.60			353.20	25.00				0.00	78.0	
	08/30	03:00	3.58N	119.51E			378.70			353.20	23.90				0.00		
	N 08/30	04:00	3.45N	119.48E			378.10			353.20	0.60				0.00	78.0	
	08/30	15:30	2.83N	119.43E			374.00			353.20	4.10				0.00		
	08/31	00:00	2.47N	119.26E			371.90			353.20	2.10				0.00		
	N 08/31	04:00	1.55N	119.30E			367.45			353.20	4.45				0.00	66.5	
	E 08/31	15:30	0.55N	117.85E			355.00			353.20	11.45				0.00	76.1	

- The vessel's speed and fuel consumption during CP good weather days can be quickly grasped with the ship reported weather and sea conditions data to be compared with Weathernews analysis.





Route	Distance	Time	Speed
Actual	1858 NM	172.3 Hours	10.8 knots
FROM:	29.6N 122.8E	ZHOUSHAN	
TO:	0.6N 117.8E	TANJUNG BARA	

**LEGEND:**  
 Wind from NE(045)  
 Each barb = 10 kts  
 1/2 barb = 5 kts  
 W 5  
 8 - DAY OF THE MONTH  
 W 5 - PRIMARY WAVE FROM WEST,  
 5 METERS  
 Date Good weather days

