



**Weather Routing Inc.  
(WRI, Ltd.)**

*"Oceans of Experience"*

## **Vessel Performance Report**

Prepared For:

**Sample Company**

**M/V Trident Navigator**

**FUJIAN to TARAkan**

**ATD: 10/23/13 12:00z**

**Reference ID: 133114**

**Date: October 28, 2013**

### **Report Summary**

#### **Original Warranted Values**

#### **Calculation Results**

|                                 |  |                                |
|---------------------------------|--|--------------------------------|
| <b>Speed:</b>                   | <b><i>about 13.50 Knots</i></b>  | <b>7.39 Hours Gained</b>       |
| <b>FO Consumption:</b>          | <b><i>about 30.00 MT/Day</i></b>   | <b>9.68 MT - UNDERCONSUMED</b> |
| <b>DO Consumption:</b>          | <b><i>about 0.30 MT/Day</i></b>  | <b>0.07 MT - UNDERCONSUMED</b> |
| <b>Good Weather Definition:</b> | <b><i>Wind of Beaufort Force 4, Significant Wave Height of 1.25 Meters. No Adverse Currents.</i></b> |                                |

**Weather Routing Inc. (WRI, Ltd.)**

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**Voyage Details**

Reference: 133114

**M/V Sample Vessel**

Prepared for  
**Sample Company**

|                                  |                                  |
|----------------------------------|----------------------------------|
| Departure Port: <b>FUJIAN</b>    | ATD: <b>10/23/2013 12:00 GMT</b> |
| Destination Port: <b>TARAKAN</b> | ATA: <b>10/27/2013 18:00 GMT</b> |

| Date/Time             | Latitude       | Longitude | Ob Type | Hours (Hrs) | Distance (nm) | Avg Speed (kts) | Fuel (MT) | Diesel (MT) | Wind - Beaufort |             |          | Wind Sea (mtrs) | Swell |             | Current |             |
|-----------------------|----------------|-----------|---------|-------------|---------------|-----------------|-----------|-------------|-----------------|-------------|----------|-----------------|-------|-------------|---------|-------------|
|                       |                |           |         |             |               |                 |           |             | Dir             | Speed (kts) | Scale    |                 | Dir   | Hght (mtrs) | Dir     | Speed (kts) |
| <b>10/23/13 12:00</b> | <b>FUJIAN</b>  |           | ATD     | ---         | ---           | ---             | 622.40    | 89.20       | NNE             | 20          | <b>5</b> | 1.3             | NNE   | 1.00        | NNW     | 0.7         |
| <b>10/24/13 04:00</b> | 22.33 N        | 119.85 E  | A       | 16.0        | 218.5         | <b>13.66</b>    | 602.50    | 89.00       | NNE             | 28          | <b>7</b> | 1.9             | NNE   | 3.50        | ENE     | 0.4         |
| <b>10/25/13 04:00</b> | 16.93 N        | 119.62 E  | A       | 40.0        | 542.8         | <b>13.51</b>    | 572.60    | 88.70       | N               | 17          | <b>5</b> | 1.1             | N     | 2.25        | ENE     | 0.4         |
| <b>10/26/13 04:00</b> | 11.73 N        | 120.72 E  | A       | 64.0        | 871.8         | <b>13.71</b>    | 542.60    | 88.40       | ENE             | 9           | <b>3</b> | 0.6             | NNW   | 0.50        | NE      | 0.1         |
| <b>10/27/13 04:00</b> | 6.27 N         | 119.83 E  | A       | 88.0        | 1204.2        | <b>13.85</b>    | 512.70    | 88.10       | NNW             | 10          | <b>3</b> | 0.7             | WNW   | 0.75        | ENE     | 0.4         |
| <b>10/27/13 18:00</b> | <b>TARAKAN</b> |           | ATA     | 102.0       | 1411.2        | <b>14.68</b>    | 495.20    | 87.90       | NNE             | 10          | <b>3</b> | 0.7             | ENE   | 0.50        | NE      | 0.6         |

"A" = Actual Position      "ATD" = Actual Time of Departure      "ETD" = Estimated Time of Departure      "S/B" = Stoppage Begins  
 "LN" = Local Noon Calculated Position      "ATA" = Actual Time of Arrival      "ETA" = Estimated Time of Arrival      "S/E" = Stoppage Ends

**Green Highlight = Good Weather Period based on Good Weather Clause**      **Red Highlight = Stoppage Period**      **Blue Highlight = Exclusion**

|                                    |  |                                     |
|------------------------------------|--|-------------------------------------|
| Voyage Distance: <b>1411.21</b> NM | <b>Ballast Charter Speed:</b> <b>13.50</b> Knots | Current Factor: <b>0.01</b> Knots   |
| Transit Time: <b>102.00</b> Hours  | Allowable Charter Time: <b>108.55</b> Hours      | Weather Factor: <b>-0.07</b> Knots  |
| Average Speed: <b>13.84</b> Knots  | Vessel Performance Time: <b>101.53</b> Hours     | Performance Spd: <b>13.90</b> Knots |



## Voyage Details

Reference: 133114

### M/V Sample Ship

Prepared for  
Sample Company

Departure Port: **FUJAIAN**

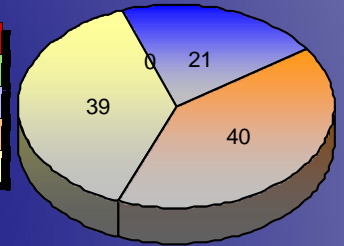
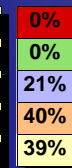
ATD: **10/23/2013 12:00 GMT**

Destination Port: **TARAKAN**

ATA: **10/27/2013 18:00 GMT**

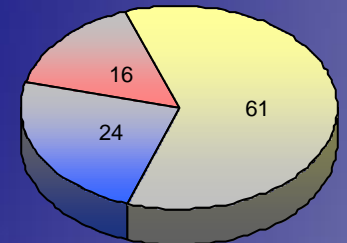
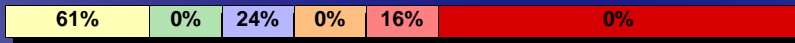
### Duration of Winds/Seas (Beaufort Force) Direction Relative to Vessel

|              | < =1 | 2 | 3    | 4 | 5    | 6 | 7    | 8 | 9 | 10 | 11=> | Total |
|--------------|------|---|------|---|------|---|------|---|---|----|------|-------|
| Head         |      |   |      |   |      |   | 0.1  |   |   |    |      | 0.1   |
| Head Qtr     |      |   |      |   |      |   |      |   |   |    |      |       |
| Beam         |      |   | 19.9 |   |      |   | 1.4  |   |   |    |      | 21.3  |
| Aft Qtr      |      |   | 37.9 |   |      |   | 3.3  |   |   |    |      | 41.2  |
| Follow       |      |   | 4.3  |   | 24.0 |   | 11.1 |   |   |    |      | 39.4  |
| <b>Total</b> |      |   | 62.0 |   | 24.0 |   | 16.0 |   |   |    |      | 102.0 |



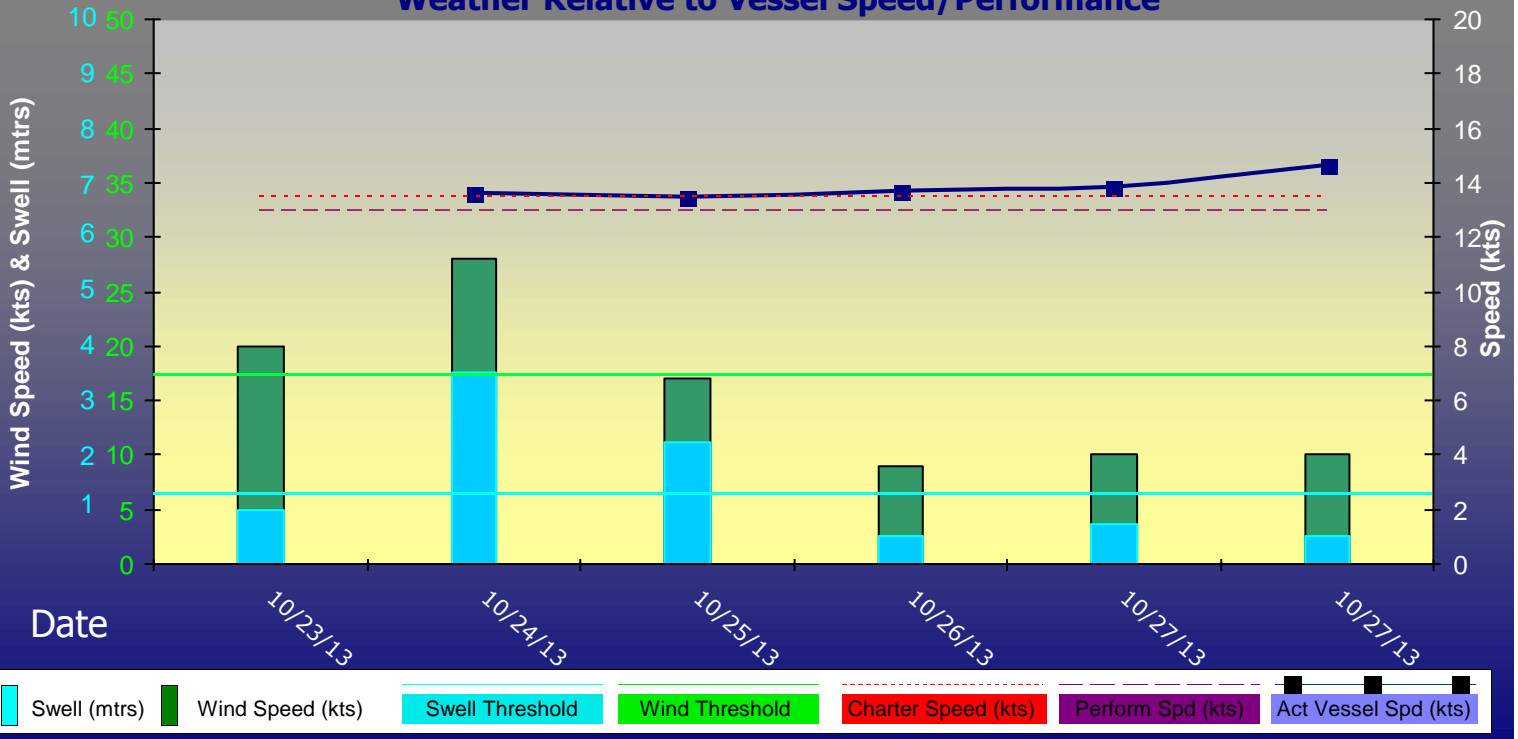
### Duration of Combined Sea and Swell (meters) Direction Relative to Vessel

|              | < 1 | 1 -> | 2 -> | 3 -> | 4 -> | 5 -> | 6 -> | 7 -> | 8 -> | 9 -> | 10=> | Total |
|--------------|-----|------|------|------|------|------|------|------|------|------|------|-------|
| Head         |     |      |      |      |      | 0.1  |      |      |      |      |      | 0.1   |
| Head Qtr     |     |      |      |      |      |      |      |      |      |      |      |       |
| Beam         |     | 26.6 |      |      |      | 1.4  |      |      |      |      |      | 28.1  |
| Aft Qtr      |     | 8.4  |      |      |      | 3.3  |      |      |      |      |      | 11.8  |
| Follow       |     | 26.9 |      | 24.0 |      | 11.1 |      |      |      |      |      | 62.1  |
| <b>Total</b> |     | 62.0 |      | 24.0 |      | 16.0 |      |      |      |      |      | 102.0 |



Percentages are rounded

### Weather Relative to Vessel Speed/Performance





## Overall Performance Analysis

Reference: 133114

### M/V Sample Ship

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|                                  |                                  |
|----------------------------------|----------------------------------|
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| Destination Port: <b>TARAKAN</b> | ATA: <b>10/27/2013 18:00 GMT</b> |

### Overall Vessel Performance Speed

For About Clause, -0.50 Knots Has Been Applied to Ballast Charter Speed of 13.50 Knots \*

|                                 |                    |
|---------------------------------|--------------------|
| <b>Actual Transit Distance:</b> | 1411.21 NM         |
| <b>Actual Transit Time:</b>     | 102.00 Hours       |
| <b>Vessel Average Speed:</b>    | <b>13.84 Knots</b> |

|                        |             |
|------------------------|-------------|
| <b>Weather Factor:</b> | -0.07 Knots |
| <b>Current Factor:</b> | 0.01 Knots  |

|                                  |                      |
|----------------------------------|----------------------|
| <b>Vessel Performance Speed:</b> | <b>13.90 Knots</b>   |
| <b>Allowable Charter Speed:</b>  | <b>13.00 Knots *</b> |

|                                 |                     |
|---------------------------------|---------------------|
| <b>Vessel Performance Time:</b> | <b>101.53 Hours</b> |
| <b>Allowable Charter Time:</b>  | <b>108.55 Hours</b> |

*Times are calculated  
Actual Distance  
divided by Respected  
Speeds*

**Time Gained: 7.02 Hours\***

*INCLUDES ALL Hours.  
NOT Adjusted for  
Charter Party Limits.*

### "Good Weather" Performance Speed

**Winds: Beaufort Force BF4 or Less      Seas: 1.25 Meters or Less**

|                      |             |
|----------------------|-------------|
| <b>Distance:</b>     | 868.50 NM   |
| <b>Transit Time:</b> | 62.00 Hours |

|  |                    |
|--|--------------------|
| <b>'Good Weather" Speed:</b>             | <b>14.01 Knots</b> |
| <b>Current Factor:</b>                   | 0.06 Knots         |
| <b>"Good Weather" Performance Speed:</b> | <b>13.95 Knots</b> |

|                                 |                     |
|---------------------------------|---------------------|
| <b>Vessel Performance Time:</b> | <b>101.16 Hours</b> |
| <b>Allowable Charter Time:</b>  | <b>108.55 Hours</b> |

**"Good Weather" Time Gained: 7.39 Hours**



## Bunker Consumption Analysis

Reference: 133114

### M/V Sample Ship

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Sample Company

Departure Port: **FUJIAN**

ATD: **10/23/2013 12:00 GMT**

Destination Port: **TARAKAN**

ATA: **10/27/2013 18:00 GMT**

### Fuel Oil

### Diesel Oil

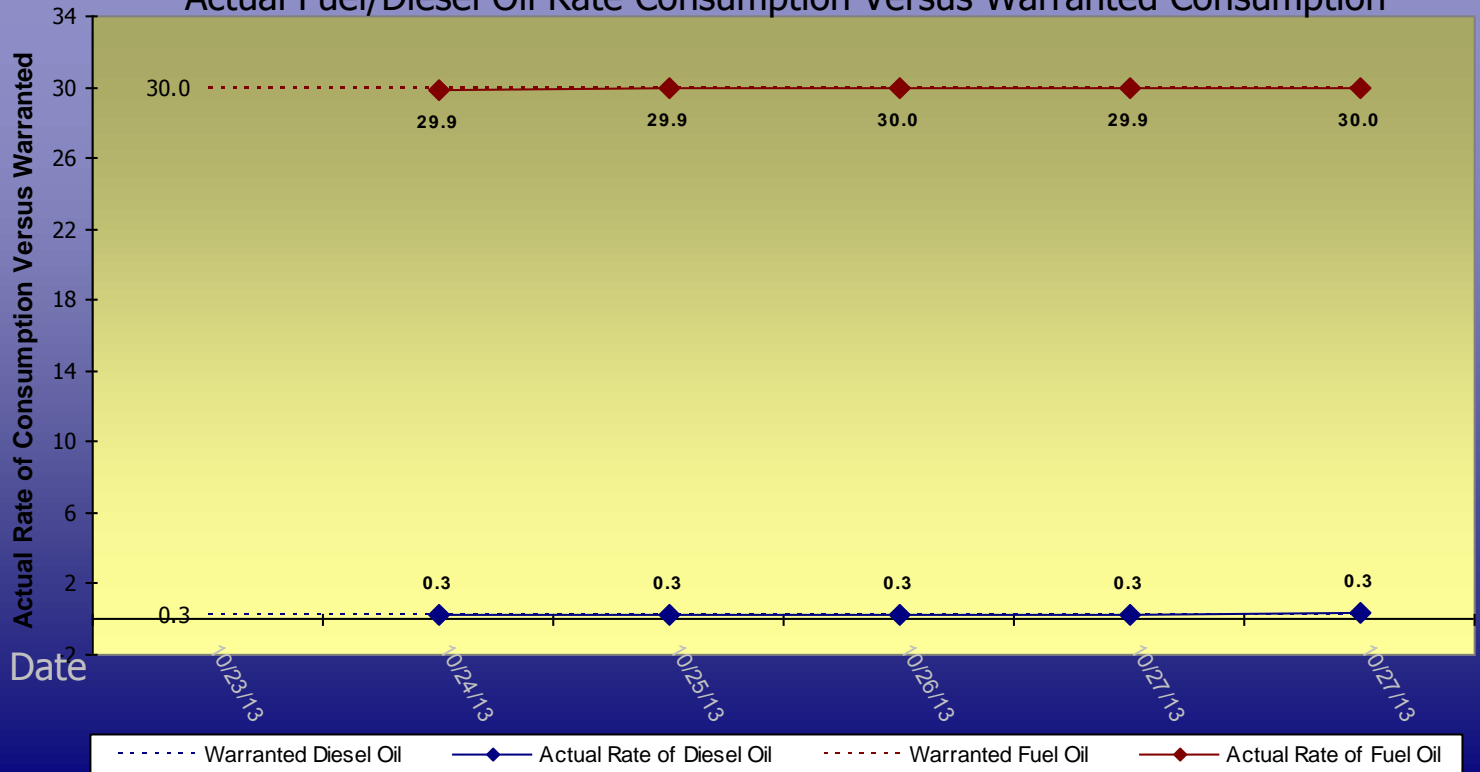
|   |                  |                 |
|---|------------------|-----------------|
| <b>Bunkers Reported at Departure Port :</b>   | <b>622.40 MT</b> | <b>89.20 MT</b> |
| <b>Bunkers Reported at Destination Port :</b> | <b>495.20 MT</b> | <b>87.90 MT</b> |
| <b>Warranted Daily Consumption:</b>           | <b>30.00 MT</b>  | <b>0.30 MT</b>  |
| <b>Actual Daily Consumption:</b>              | <b>29.93 MT</b>  | <b>0.31 MT</b>  |
| <b>Warranted Total Consumption:</b>           | <b>136.88 MT</b> | <b>1.37 MT</b>  |
| <b>Actual Total Consumption:</b>              | <b>127.20 MT</b> | <b>1.30 MT</b>  |

**UNDERCONSUMED - Overall FUEL OIL Consumption 9.68 MT Less Than Guaranteed Limits**

**UNDERCONSUMED - Overall DIESEL OIL Consumption 0.07 MT Less Than Guaranteed Limits**

*Allowable Charter Time with Adjusted GOOD Weather and Current Factors Has Been Applied to Calculate Warranted Total Consumption*

### Actual Fuel/Diesel Oil Rate Consumption Versus Warranted Consumption





## Voyage Detail Map

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