

Vessel information

1. Identity

| | | | |
|---------------------------------------|---------------------------------------|------------------------|-------------------------------|
| 1.1. Vessel's Name Borealis (BORE) | 1.2. Vessel's Type Short Volgo-Don | 1.3. IMO No 8873740 | 1.4. Call sign UAIK |
| 1.5. Official/Registry No 8865 | 1.6. Port of Registry Taganrog | 1.7. Flag Russia | 1.8. MMSI Number 273313100 |

2. Ownership. Operation

| | | | |
|---|---------------------------|---|--|
| 2.1. Former's name(s) Volgo-Don 239 Address | 2.2. Owners N/A N/A | 2.3. Managers Vassilev Maritime Nak. Ve Dis Tic. Ltd. Sti. N/A | 2.4. Bareboat Charterers N/A N/A |
|---|---------------------------|---|--|

3. Cargo Spaces

3.1. Holds

| No | 1. Length (m) | 2. Breadth (m) | 3. Height (m) | 4. Grain Capacity (m ³) | 4. Bale Capacity (m ³) | 6. On tank top mts/m ² |
|--------------|---------------|----------------|---------------|-------------------------------------|------------------------------------|-----------------------------------|
| 1 | 28.80 | 12.30 | 5.65 | 2038.00 | 2038.00 | 5.50 |
| 2 | 28.80 | 12.30 | 5.65 | 2090.00 | 2090.00 | 5.50 |
| Total | | | | 4128.00 | 4128.00 | |

3.2. Hatch Covers

| No | 1. Length (m) | 2. Breadth (m) | 3. Height (m) | 4. Hatch Cover's Type | 5. On deck(mts/m ²) |
|----|---------------|----------------|---------------|-----------------------|---------------------------------|
| 1 | 14.40 | 13.10 | 0.50 | Piggy back | 1.75 |
| 2 | 14.40 | 13.10 | 0.50 | Piggy back | 1.75 |
| 3 | 14.40 | 13.10 | 0.50 | Piggy back | 1.75 |
| 4 | 14.40 | 13.10 | 0.50 | Piggy back | 1.75 |

3.3. Cargo Tanks

| No | 1. Description | 2. Capacity m ³ |
|--------------|----------------|----------------------------|
| Total | | 0.00 |

3.4. Container Capacity

| | | |
|----------------|---------------------|------------------|
| 1. Total (teu) | 2. Under deck (teu) | 3. On deck (teu) |
| 0 | 0 | 0 |

4. Classification

| | | |
|---|--|--|
| 4.1. Classification Society Russian Maritime Register Of Shipping | 4.2. Class Annotation KM*L4R2 - RSN | 4.3. Class society reg. number 804066 |
|---|--|--|

5. Cranes, derricks, winches, pumps

5.1. Winches

| | |
|----|--------|
| No | 1. SWL |
|----|--------|

5.2. Cranes

| | |
|----|--------|
| No | 1. SWL |
|----|--------|

5.3. Description

| | |
|----|--------|
| No | 1. SWL |
|----|--------|

| | |
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2. Ownership. Operation

| | | | |
|--|--------------------|--|---------------------------------|
| 2.1. Former's name(s) Volgo-Don 239 | 2.2. Owners N/A | 2.3. Managers Vassilev Maritime Nak. Ve Dis Tic. Ltd. Sti. | 2.4. Bareboat Charterers N/A |
| Address | N/A | N/A | N/A |

5. Cranes, derricks, winches, pumps

5.4. Ballast Pumps

| No | 1. Capacity (t/h) | Total |
|----|-------------------|-------|
| | | 0 |

5.5. Bow thruster (yes/no)

Yes

6. Hull

| | | | |
|--|-----------------------------------|--------------------------------------|-------------------------------------|
| 6.1. Year of built 1980 | 6.2. Shipbuilders OKA Shipyard | | |
| 6.3. Place of built Navashino, Russia | 6.4. Yard No 1137 | 6.5. Length (o.a.)(m) 107.10 | 6.6. Breadth (extreme) (m) 16.50 |
| 6.7. Summer draft (m) 3.48 | 6.8. Length (b.p.) (m) 103.80 | 6.9. Breadth (moulded) (m) 16.50 | 6.10. Depth (moulded) (m) 5.50 |
| 6.11. Free board (m) 2.02 | 6.12. Number of decks 1.00 | 6.13. Thickness of keel (mm) 8.00 | 6.14. Bulbous bows No |
| 6.15. Project No 507 B | 6.16. Project Description | | |

6.17. Superstructures

| No | 1. Position |
|----|-------------|
| 1 | Aft |

6.18. Balast tanks

| No | 1. Description | 2. Capacity (m ³) |
|--------------|----------------|-------------------------------|
| 1 | | 58.00 |
| 2 | | 523.00 |
| 3 | | 523.00 |
| 4 | | 513.00 |
| 5 | | 513.00 |
| Total | | 2130.00 |

6.19. IFO tanks

| No | 1. Description | 2. Capacity (m ³) |
|----|----------------|-------------------------------|
|----|----------------|-------------------------------|

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| Address | N/A | N/A | N/A |

6. Hull

6.19. IFO tanks

| No | 1. Description | 2. Capacity (m ³) |
|--------------|----------------|-------------------------------|
| Total | | 0.00 |

6.20. GO tanks

| No | 1. Description | 2. Capacity (m ³) |
|--------------|----------------|-------------------------------|
| 1 | | 65.00 |
| 2 | | 22.00 |
| 3 | | 22.00 |
| 4 | | 38.80 |
| 5 | | 24.80 |
| 6 | | 14.40 |
| 7 | | 8.00 |
| Total | | 195.00 |

6.21. Slop tanks

| No | 1. Description | 2. Capacity (m ³) |
|--------------|----------------|-------------------------------|
| 1 | | 13.60 |
| Total | | 13.60 |

6.22. Lubrication oil

| No | 1. Description | 2. Capacity (m ³) |
|--------------|----------------|-------------------------------|
| 1 | | 5.00 |
| 2 | | 5.00 |
| 3 | | 3.50 |
| Total | | 13.50 |

6.23. Fresh water tanks

| No | 1. Description | 2. Capacity (m ³) |
|--------------|----------------|-------------------------------|
| 1 | | 41.80 |
| 2 | | 117.00 |
| Total | | 158.80 |

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|---|---------------------------|---|--|

6. Hull

6.24. Deep tanks

| No | 1. Description | 2. Capacity (m ³) |
|--------------|----------------|-------------------------------|
| 1 | | 396.00 |
| Total | | 396.00 |

7. Life-saving appliances equipment

7.1. Life-boats

| No | 1. Manufactured by | s. Serial number | 3. Passanger capacity (prs) |
|----|--------------------|------------------|-----------------------------|
| 1 | USSR | 794 | 20 |
| 2 | USSR | 890 | 20 |

7.2. Rescue boats

| No | 1. Manufactured by | s. Serial number | 3. Passanger capacity (prs) |
|----|--------------------|------------------|-----------------------------|
|----|--------------------|------------------|-----------------------------|

7.3. Life rafts

| No | 1. Manufactured by | s. Serial number | 3. Passanger capacity (prs) |
|----|--------------------|------------------|-----------------------------|
| 1 | Russia | 00130102 | 20 |
| 2 | Russia | 05050704 | 10 |

8. Machinery

8.1. Main engines

| No | 1. Manufactured by | 2. Serial number | 3. Type | 4. Type annotation | 5. Position | 6. Year of built | 7. Number of cylinders | 8. Power (Kw) | 9. Running Oil |
|----|-----------------------|------------------|---------|--------------------|-------------|------------------|------------------------|---------------|----------------|
| 1 | "Двигатель Революций" | 428 | Г-60 | 6ЧPH 36/45 | PORT | 1980 | 6 | 662 | GO |
| 2 | "Двигатель Революций" | 427 | Г-60 | 6ЧPH 36/45 | STBD | 1980 | 6 | 662 | GO |

8.2. Diesel generators

| No | 1. Manufactured by | 2. Serial number | 3. Type | 4. Type annotation | 5. Position | 6. Year of built | 7. Number of cylinders | 8. Power (Kw) | 9. Est. GO Consumption (t/d) |
|----|-------------------------|------------------|------------|--------------------|-------------|------------------|------------------------|---------------|------------------------------|
| 1 | "Дальдизель", Хабаровск | 202-14471 | ДГР100/750 | 6Ч18/22 | PORT | 1980 | 6 | 100 | 0.59 |
| 2 | SKL Motoren-Und Sy | 5511069 | 6NVD26 | 6Ч18/26 | STBD | 1988 | 6 | 147 | 0.59 |

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| 2.1. Former's name(s) Volgo-Don 239 Address | 2.2. Owners N/A N/A | 2.3. Managers Vassilev Maritime Nak. Ve Dis Tic. Ltd. Sti. N/A | 2.4. Bareboat Charterers N/A N/A |
|---|-------------------------------|---|--|

8. Machinery

8.2. Diesel generators

| No | 1. Manufactured by | 2. Serial number | 3. Type | 4. Type annotation | 5. Position | 6. Year of built | 7. Number of cylinders | 8. Power (Kw) | 9. Est. GO Consumption (t/d) |
|----|-------------------------|------------------|---------|--------------------|-------------|------------------|------------------------|---------------|------------------------------|
| | stemtechnik GmbH | | -2 | | | | | | |
| 3 | "Юждизельмаш" г. Токмак | 002863 | K-462 | 6412/14 | EMER | 1980 | 6 | 50 | 0.59 |

8.3. Boilers

| No | 1. Manufactured by | 2. Serial number | 3. Annotation | 4. Position | 5. Pressure (Pa) | 6. Heating surface of boilers (m ²) | 7. Est. GO Consumption (t/d) |
|----|--------------------|------------------|---------------|-------------|------------------|---|------------------------------|
| 1 | Demirdokum | 800162 | MD-7 | Engine Room | 0.00 | 0 | 0.50 |

9. Radio and navigation equipment

9.1. Radars

| No | 1. Manufactured by | 2. Model | 3. Serial number |
|----|--------------------|----------------------|------------------|
| 1 | Racal Decca | BRIDGE MASTER II 250 | FB5658 |
| 2 | Kelvin Hughes | NUCLEUS 5000T | 230348 |

9.2. Echo Sounders

| No | 1. Manufactured by | 2. Model | 3. Serial number |
|----|--------------------|----------|------------------|
| 1 | ELAC | LAZ 50 | 525468002 |

9.3. Logs

| No | 1. Manufactured by | 2. Model | 3. Serial number |
|----|--------------------|----------|------------------|
|----|--------------------|----------|------------------|

9.4. INMARSATS

| No | 1. Manufactured by | 2. Model | 3. Serial number | 4. Format | 5. Number |
|----|--------------------|-----------|------------------|-----------|-----------|
| 1 | Sailor | H1253B | 928278 | C | 427300450 |
| 2 | JRC | NDZ-127C1 | 51750 | C | 427301986 |

9.5. LRITs

| No | 1. Manufactured by | 2. Model | 3. Serial number | 4. Format | 5. Number |
|----|-----------------------------|----------|------------------|-----------|-----------|
| 1 | MVS - Global Communications | COM - 2 | 2200230 | | 10020104 |

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2. Ownership. Operation

| | | | |
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| 2.1. Former's name(s) Volgo-Don 239 Address | 2.2. Owners N/A N/A | 2.3. Managers Vassilev Maritime Nak. Ve Dis Tic. Ltd. Sti. N/A | 2.4. Bareboat Charterers N/A N/A |
|---|-------------------------------|---|--|

9. Radio and navigation equipment

9.6. Radio telexes

| No | 1. Manufactured by | 2. Model | 3. Serial number | 4. Number (NBDP) |
|----|--------------------|----------|------------------|------------------|
|----|--------------------|----------|------------------|------------------|

9.7. Portable VHF Radios

| No | 1. Manufactured by | 2. Model | 3. Serial number |
|----|--------------------|----------|------------------|
| 1 | Jotron | TRON VHF | 8FH08366 |
| 2 | Jotron | TRON VHF | 8FH08364 |
| 3 | Jotron | TRON VHF | 8FH08415 |

9.8. VHF Radios

| No | 1. Manufactured by | 2. Model | 3. Serial number |
|----|-------------------------|----------|------------------|
| 1 | Sailor | RT 2048 | 524170 |
| 2 | JRC | NCM-1770 | BJ 10897 |
| 3 | Furuno Electric Co.Ltd. | FM-8500 | 2596-7260 |

9.9. VHF DSCs

| No | 1. Manufactured by | 2. Model | 3. Serial number |
|----|-------------------------|----------|------------------|
| 1 | Sailor | RT 2048 | 524170 |
| 2 | JRC | NCM 1770 | BJ 10897 |
| 3 | Furuno Electric Co.Ltd. | FM-8500 | 2596-7260 |

9.10. MF/HF Radios

| No | 1. Manufactured by | 2. Model | 3. Serial number |
|----|-------------------------|----------|------------------|
| 1 | Furuno Electric Co.Ltd. | FS-1562 | 2560-4095 |

9.11. MF/HF DSCs

| No | 1. Manufactured by | 2. Model | 3. Serial number |
|----|-------------------------|----------|------------------|
| 1 | Furuno Electric Co.Ltd. | DSC-6A | 2580-1080 |

9.12. SARTs

| No | 1. Manufactured by | 2. Model | 3. Serial number |
|----|--------------------------|----------|------------------|
| 1 | STC International Marine | SOLAS-9 | ST092-048 |
| 2 | STC International Marine | SOLAS-9 | ST092-055 |

9.13. EPIRBs

| No | 1. Manufactured by | 2. Model | 3. Serial number |
|----|--------------------|------------|------------------|
| 1 | Jotron | TRON 45S | 81B00437 |
| 2 | SERPE/IESM | KANNAD 406 | 310669 |

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2. Ownership. Operation

| | | | |
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| 2.1. Former's name(s) Volgo-Don 239 | 2.2. Owners N/A | 2.3. Managers Vassilev Maritime Nak. Ve Dis Tic. Ltd. Sti. | 2.4. Bareboat Charterers N/A |
| Address | N/A | N/A | N/A |

9. Radio and navigation equipment

9.14. GPSs

| No | 1. Manufactured by | 2. Model | 3. Serial number |
|----|-------------------------|------------|------------------|
| 1 | Furuno Electric Co.Ltd. | GP-1610CF | 2496-7771 |
| 2 | | NAVTRAC XL | 0080008576 |

9.15. Navtexes

| No | 1. Manufactured by | 2. Model | 3. Serial number |
|----|--------------------|----------|------------------|
| 1 | Samyung | SNX-300 | 7309086 |

9.16. Gyrocompasses

| No | 1. Manufactured by | 2. Model | 3. Serial number |
|----|--------------------|-----------|------------------|
| 1 | CPLATH | NAVIGAT X | 05016 |

9.17. AISs

| No | 1. Manufactured by | 2. Model | 3. Serial number |
|----|--------------------|----------|------------------|
|----|--------------------|----------|------------------|

9.18. SVDRs

| No | 1. Manufactured by | 2. Model | 3. Serial number |
|----|--------------------|----------|------------------|
|----|--------------------|----------|------------------|

9.19. SSASs

| No | 1. Manufactured by | 2. Model | 3. Serial number |
|----|-----------------------------|----------|------------------|
| 1 | MVS - Global Communications | COM - 2 | 2200230 |

10. Performance

10.1. Performance

| Output (% of normal) | 1. RPM | 2. Output (Kw) | 3. Consumption (t/d) | | 4. Speed (kn) | | |
|----------------------|--------|----------------|----------------------|---------|---------------|--------------|------|
| | | | 3.1. GO | 3.2. FO | 4.1. Load | 4.2. Ballast | |
| Full ahead | (85%) | 320 | 404 | 5.20 | 0.00 | 8.00 | 8.00 |

| | | | |
|---|------------------------------------|--|---|
| 10.2. Fresh water consumption (t/d) 2.00 | 10.3. Estimated speed (kn) 8.00 | 10.4. Estimated sailing LO consumption (kg/d) 60.00 | 10.5. Estimated idle LO consumption (kg/d) 10.00 |
|---|------------------------------------|--|---|

10.6. Period of time between each two disposals of:

| | | |
|------------------------------|------------------------------|------------------------------|
| 10.6.1 Sludge water (d) 0 | 10.6.2 Faecal water (d) 6 | 10.6.3 Bilge water (d) 20 |
|------------------------------|------------------------------|------------------------------|

11. Propulsion and mooring gear

| | |
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|---|---------------------------|---|--|

11. Propulsion and mooring gear

| 11.1. Anchor chains | 1. Caliber (mm) | 2. Length (m) |
|---------------------|-----------------|---------------|
| Port side | 44 | 175 |
| Starboard side | 44 | 150 |
| Stern | 34 | 75 |

| 11.2. Anchor gear | 1. Manufactured by | 2. Serial number | 3. Type of propulsion |
|-------------------|--------------------|------------------|-----------------------|
| Bows | USSR | 36/22/7 | Hydraulic |
| Stern | USSR | 4/11/25 | Hydraulic |

11.3. Propellers

| No | 1. Direction | 2. Type | 3. Number of blades | 4. Material | 5. Diameter (m) | 6. Pitch (m) | 7. Weight (kg) |
|----|----------------|------------------------|---------------------|-----------------|-----------------|--------------|----------------|
| 1 | Port side | Non-controllable pitch | 4 | stainless steel | 1.80 | 1.51 | 710.00 |
| 2 | Starboard side | Non-controllable pitch | 4 | stainless steel | 1.80 | 1.51 | 710.00 |

11.3. Cargo pumps

| No | 1. Capacity t/h |
|-------|-----------------|
| Total | 0 |

12. Services

| | | |
|---|---|--|
| 12.1. Radio accounting authority AAIC - SU04 | 12.2. SBMA service company STT Deniz Ticaret Ve Servis Ltd Sti | 12.3. ERIPB registration authority MKVC "COSPAS - SARSAT" |
| 12.4. Insurance company VSK Strakhovoy Dom. | 12.5. P&I Club Navigators P&I | |

13. Tonnages

| | | | | | |
|------------------|-----------------|------------------------------|--------------------------------|----------------------------------|--|
| 13.1. GT 2979 | 13.2. NT 893 | 13.3. Light Ship (t) 1442 | 13.4. Suez Canal NRT (RT) 0 | 13.5. Sulina Canal NRT (RT) 0 | 13.6. Tons per 1 cm immersion (t) 16.00 |
|------------------|-----------------|------------------------------|--------------------------------|----------------------------------|--|

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13. Tonnages**13.6 Deadweight**

| | | | | |
|---|--|--|---|---|
| 13.6.1. Tropical fresh (t) at (m) 0 at 0.00 draft | 13.6.2. Fresh water (t) at (m) 3574 at 3.55 draft | 13.6.3. Tropical water (t) at (m) 0 at 0.00 draft | 13.6.4. Summer (t) at (m) 3574 at 3.48 draft | 13.6.5. Winter (t) at (m) 3455 at 3.40 draft |
| 13.6.6. Winter North Atlantic (t) at (m) 0 at 0.00 draft | | 13.6.7. Class M-Pr (t) at (m) 0 at 0.00 draft | | |

14. Trading area

| | |
|--|--|
| 14.1. Word-wide No | |
| 14.2. Caspian Sea Geographical restrictions(if any) A3 / special reg / | |
| 14.3. Azov Sea Geographical restrictions(if any) no restrictions | |
| 14.4. Baltic Sea Geographical restrictions(if any) up to 100 miles from place of refuge not more 200 miles between places of refuge | |
| 14.5. Black Sea Geographical restrictions(if any) up to 100 miles from place of refuge not more 200 miles between places of refuge | |
| 14.6. Mediterrian Sea Geographical restrictions(if any) up to 100 miles from place of refuge not more 200 miles between places of refuge | |
| 14.7. GMDSS area A1A2A3 | 14.8. Restrictions to hight of waves (m) 6.00 |

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