



m/v KIOWA

GENERAL

| | | |
|-----------------|---|--|
| IMO Number | : | 9788095 |
| Keel Laying | : | 17/09/2015 |
| Date of Built | : | 11/11/2016 |
| Basic functions | : | Transport of general cargoes, grain, forest products, dangerous cargoes and other bulk cargoes etc. |
| Classification | : | RINA, No. 93989 |
| Class Notation | : | RINA C \boxtimes Hull \boxtimes Mach General Cargo Ship – Double Side-Skin – Nonhomeload AUT-UMS, Coat-WBT, Inwatersurvey, ICE*, Special Navigation** *Equal to ICE 2 notation acc. to RMRS **Unrestricted navigation at summer zone and limited to 100miles from shore at winter zone |

DIMENSIONS

| | | | |
|--|---|--------|---|
| Length o.a. | : | 140,90 | m |
| Length b.p. | : | 139,45 | m |
| Breadth | : | 16,80 | m |
| Depth to Main Deck | : | 6,00 | m |
| Summer draft | : | 4,7 | m |
| Air draught from base | : | 16,9 | m |
| DWT (draft 4,7m @ 1,025 t/m ³) | : | 7912 | t |
| DWT (draft 3,6m @ 1,010 t/m ³) | : | 5215 | t |
| GT | : | 6364 | |
| NRT | : | 3875 | |

CARGO CAPACITIES

| | | | |
|--|---|---------|-----------------|
| No.1 Hold (26,0 x 13,2 x 9,20m) | : | 3.157 | m ³ |
| No.2 Hold (27,3 x 13,2 x 9,20m) | : | 3.309 | m ³ |
| No.3 Hold (27,3 x 13,2 x 9,20m) | : | 3.309 | m ³ |
| No.4 Hold (26,0 x 13,2 x 9,20m) | : | 3.156 | m ³ |
| Total Cargo Volume (12.927m ³) | : | 456.548 | ft ³ |

PERFORMANCE (APPROX)

| | | | |
|------------------------------|---|------|----|
| Total Power | : | 2060 | kW |
| Speed (draft 4,7m @ 75% MCR) | : | 10,5 | kn |
| Speed (draft 3,6m @ 75% MCR) | : | 11,0 | kn |

PROPULSION

| | | |
|--------------------|---|--|
| Main Engine | : | 2x Yanmar 6EY22AW, 1030kW@900RPM |
| Propellers | : | 2x FPP, 4 bladed, Dia.2800mm, CuAl10Ni |
| Reduction Gears | : | 2x Reintjes WAF 863L |
| Tailshaft | : | 2x Dia.230mm, material F51 Duplex |
| Stern Tube Sealing | : | 2x PSE-225 Wartsila Deepsea, |
| Nozzles | : | 2x Damen Optima, inner side F51 Duplex |
| Bow Thruster | : | 1x 240kW FPP Brunvoll "FU-37-LTF-1000" |
| Steering Gear | : | 2x RAM type with 24V emergency pump |
| Rudder | : | 2x Flap type rudder blade |

GENERATORS

| | | |
|---------------------------|---|---|
| Diesel Generators | : | 2x Yanmar 6HAL2-WDT, 240kWe (400V 50Hz) |
| Shaft Generator | : | 2x LSAM 47.2 M7 AREP 144-230kWe |
| AFE Grid Converter System | : | 3x Vacon NXA0460 |
| Emerg/Harbor Generator | : | 1x Volvo Penta D7A T RC – 104 kWe |

AUXILIARY

| | | |
|------------------------|---|---|
| Sewage Treatment Plant | : | RWO "CS-BIO 3" (3,24 m ³ /day) |
| Oily Water Separator | : | RWO "OWS-COM" (1,0 m ³ /hr) |
| HFO Separators | : | 2x Alfa Laval "SA 805 ALCAP", |
| LO Separators | : | 2x Alfa Laval "SA 805 ALCAP" |
| MDO Separator | : | Alfa Laval "MIB 303" |

TANK CAPACITIES

| | | | |
|---------------|---|------|----------------|
| Ballast water | : | 4500 | m ³ |
| HFO (IFO180) | : | 225 | m ³ |
| MDO / MGO | : | 102 | m ³ |
| Fuel Overflow | : | 12 | m ³ |
| Lub Oil | : | 10,6 | m ³ |
| Sludge | : | 8.8 | m ³ |
| Bilge | : | 12 | m ³ |
| Sewage | : | 12 | m ³ |
| Dirty Oil | : | 8,8 | m ³ |
| Thermal Oil | : | 7,3 | m ³ |
| Fresh water | : | 90 | m ³ |
| Potable water | : | 20 | m ³ |

RADIO / NAVIGATION / COMMUNICATION

| | | |
|---------------------------------|---|------------------------|
| X-Band Radar - 26' screen | : | Furuno FAR-3210 |
| S-Band Radar - 26' screen | : | Furuno FAR-3230S-SSD |
| ECDIS - 26' screen | : | 2x Furuno FMD-3200 |
| Echo Sounder | : | Furuno FE-800 |
| Speed Log | : | Furuno DS-80 |
| VDR | : | Furuno VR-7000 |
| Gyro compass | : | Tokyo-Keiki TG-8000 |
| Autopilot System | : | Tokyo-Keiki PR-9510A-E |
| Weather Station | : | Airmar 150WX |
| BNWAS | : | Furuno BR-500 |
| Magnetic Compass | : | Tokyo-Keiki SH-165A2 |
| Marine VHF Radio | : | 2x Furuno FM-8900S |
| MF/HF Radio | : | Furuno FS-1575 |
| Inmarsat-C with SSAS/LRIT | : | Furuno FELCOM-18 |
| Inmarsat-C | : | Furuno FELCOM-18 |
| EPIRB | : | Sailor EPIRB SE406-II |
| SART | : | 2x Sailor SART II |
| Portable VHF GMDSS | : | 3x Sailor SP3520 |
| Navtex Receiver | : | Furuno NX-700B |
| AIS | : | Furuno FA-150 |
| UHF Radiotelephone | : | 2x Motorola DM2600 |
| UHF Portable Radio | : | 3x Motorola DP2600 |
| Portable VHF Radio | : | 5x Sailor SP3510 |
| DGPS Navigator | : | Furuno GP-170 |
| GPS Navigator | : | Furuno GP-170 |
| Satellite TV System | : | Sea Tel ST24 |
| Whistle, Pneumatic | : | 2x Kockum Sonic |
| Sound Signal Reception System | : | Zenitel Vingtor VSS-V2 |
| Batteryless Telephone System | : | Zenitel, VSP |
| Talkback System | : | Zenitel, CTB-10 |
| Automatic Telephone & PA System | : | Zenitel, ACM-M -A36-2 |

AUXILIARY (Cont.)

| | | |
|-----------------------------|---|--|
| Booster Unit | : | Alfa Laval Model "FCM 1100 TT F" |
| Fresh Water Generator | : | Alfa Laval "JWP 16 C40" - 5,0 m ³ /day |
| Economizers (Thermal Oil) | : | 2x Aalborg "EXV4" 200kW |
| Thermal Oil Heater | : | Aalborg, 400kW, "V3-TFO-004" |
| Starting Air Compressors | : | 2x Atlas Copco "LT 7-30 KE" 26,50m ³ /hr |
| Service Air Compressor | : | Atlas Copco MAS+GA11+P - 109m ³ /h 8,5bar |
| Air Dryer | : | Atlas Copco "FX7" 180 m ³ /hour |
| Ballast Pumps | : | Azcue Bombas 2x 370 m ³ /hour |
| Engine Cooling System | : | NRF, 4x box coolers |
| Remote Valve Control System | : | Emerson Damcos VRC system |
| Tank Level Gauging | : | Emerson Level Datic system |
| Anodes/Protection | : | ICCP and ICAF systems, Corrosion Marine |

DECK MACHINERY

| | | |
|-----------------------------|---|---|
| Fwd Windlass/Mooring Winch | : | 2x Electric combined with Frequency Drive |
| Aft Windlass/Mooring Winch | : | 1x Electric combined with Frequency Drive |
| Fwd Anchors/Chains | : | AC-14 HHP 1980kg, Ø40mm Grade-3 chain |
| Aft Anchors/Chain | : | AC-14 HHP 1575kg, Ø34mm Grade-3 chain |
| Rescue Boat/Provision Crane | : | SWL 16kN @ 4m, Electrohydraulic Type |

FIRE FIGHTING & LIFE SAVING

| | | |
|--------------------------|---|---------------------------------------|
| Fixed CO2 System | : | Minimax, E.R. and Cargo Holds |
| Fire Detection & Alarm | : | Consilium, E.R. and Accommodation |
| Local Application System | : | Safetec, E.R. machinery |
| Water Spray System | : | Safetec, Cargo Holds |
| Smoke Detection System | : | Safetec, Cargo Holds |
| Water Ingress System | : | Kongsberg, Cargo Holds and Fwd Spaces |
| Freefall | : | Gepa GFFF -20persons |
| Rescue boat | : | Gepa GRB-1 -6persons |

AUTOMATION / MONITORING

| | | |
|-------------------------|---|---|
| Alarm Monitoring System | : | Allen Bradley - Rockwell with Zenon Scada |
| Loading Computer | : | 26" Marine Panel PC in Wheelhouse |
| Security Camera System | : | 2x 360° E.R., 1x 180° Rear-view |
| Performance Monitoring | : | VAF, flowmeters and shaft torque meters |
| Bunkermeters | : | VAF, 1x MDO and 1x HFO with ticketprinter |

PAINT SYSTEM

| | | |
|------------------------|---|--|
| Ballast Tanks | : | Jotun, Jotacote Universal N10, 500mic. |
| Cargo Holds | : | Jotun, Jotaguard 660, 300mic. |
| Flat and Side Bottom | : | Jotun, Jotacote Universal N10, 625mic. |
| Boottop | : | Jotun, Marathon IQ, 725mic. |
| Antifouling System | : | Jotun, Seaquantum A/F, 5 years |
| Topsides | : | Jotun, Hardtop XP, 425mic. |
| Decks and Hatch Covers | : | Jotun, Hardtop XP, 350mic. |



Wheelhouse



Engine Room Lower Floor

