HIGHLAND GUARDIAN  MMC887 CD PSV DP 2, 
DIESEL ELECTRIC, CLEAN DESIGN - LARGE PLATFORM SUPPLY VESSEL

REGISTRATION

Year Built 2013
Builder Remontowa, Poland
Flag UK
Classification ABS +A1 (E) OFFSHORE SUPPORT VESSEL, +AMS, +ACCU, +DPS-2, OIL RECOVERY
CAPABILITY CLASS 2, FIRE FIGHTING VESSEL CLASS 1, UWILD, GP, ENVIRO, SPS

MAIN CHARACTERISTICS

Length Overall 286 ft (87.25 m)
Breadth (moulded) 62 ft (18.80 m)
Depth (moulded) 24 ft (7.40 m)
Draught (max) 19 ft (5.90 m)
GT 4,149
NT 1,740

CAPACITIES

Deadweight 5096 T
Cargo Deck Area 205 ft x 52.5 ft = 10762.5 ft²
(62.5 x 16 m = 1,000 m²)
Deck Load 2,500 T @ 5 T/m²
Fuel Oil Cargo 240,660 gal (911 m³)
Potable Water 250,171 gal (947 m³)
Oil Based Mud 12,960 bbls
Base Oil 1,450 bbls
Brine 12,960 bbls
Methanol / Xylene 88,762 gal (336 m³)
Dry Bulk 14,995 ft³ in 5 tanks

CARGO DISCHARGE

Fuel Oil 150 m³/hr @ 90 m hd
Pot Water 150 m³/hr @ 90 m hd
Oil Based Mud 4 x 75 m³/hr @ 14bar
Base Oil 100 m³/hr @ 90 m hd
Brine 4 x 75 m³/hr @ 14bar
Cement 80 T/hr @ 90 m hd
Barytes 60 T/hr @ 90 m hd
Bentonite 100 T/hr @ 90 m hd
Methanol 2 x 75 m³/hr @ 90 m hd
Drill Water 150 m³/hr @ 90 m hd

PERFORMANCE

11 knots @ Approx.11 T / day
14.5 knots @ Approx. 20 T / day
DP @ Approx. 5-10 T / day

DYNAMIC POSITIONING SYSTEM (CLASS II)

L3 Platinum DP System
References 1 x Radascan
2 x DGPS receiver

MACHINERY

Diesel Electric Generating Power 9,598 BHP
Propulsive BHP 5,362 BHP
Main Generators 4 x CAT 1790 KW
Emergency Gen 1 x CAT 350 KW
Thrusters Bow 1 x 1200 BHP(Tnl)
Thrusters Bow 1 x 1070 BHP(Az)
Thrusters Stern N/A – D.E. (Azimuth)
Rudders N/A – D.E. (Azimuth)
Propellers 2 x FPP Azimuth
Capstans 2 x 10T
Deck Crane 2 x 3T @ 10m
Tugger Winch 2 x 10T

MANOEUVRING EQUIPMENT

2 x Rotating variable speed Stern Azimuth propulsion units (Diesel electric)

TANK WASHING SYSTEM

Fixed tank washing system in all mud tanks
Hot / Cold wash with / without chemicals

NAVIGATION AND COMMUNICATION

1 x L3 Radarpilot 10CM ARPA RADAR
1 x L3 Radarpilot 3CM ARPA RADAR
3 x C-Nav 100G DGPS inbuilt Navigator
3 x Sailor SP3520 GMOSS VHF’s
4 x Motorola GP 340 portable UHF exrated
1 x GSM/GPRS Cellular phone
3 x TSS Meridian Gyro Compasses
1 x L3 Trackpilot autopilot
1 x L3 ECDISpilot
1 x Caprock Sat Communication system
1 x SAM 4620 echo sounder
1 x SAM 4682 Doppler speed log
1 x SAM 3410 AIS system
1 x SAM RT6310 MF/HF SSB radio station
1 x SAM DSC terminal
2 x SAM 6110E Inmarsat C
1 x Sailor FBB150 Fleetbroadband Satellite
1 x SAM 2918 Navtex receiver
2 x Debeg RT622 VHF - built in DSC
1 x Debeg RT6210 simplex VHF
1 x SAM 6110 SSAS
1 x SAM LRIT software

ENVIRONMENTAL

ABS ‘ENVIRO’ Class notation
Double Hull with no hydrocarbon products on outer shell.
Green Passport

ACCOMMODATION

40 persons
16 x 1 Man cabins
12 x 2 Man cabins

NOTICE: The data contained herein is provided for convenience of reference to allow users to determine the suitability of the Company’s equipment. The data may vary from the current condition of equipment which can only be determined by physical inspection. Company has exercised due diligence to insure that the data contained herein is reasonably accurate. However, Company does not warrant the accuracy or completeness of the data. In no event shall Company be liable for any damages whatsoever arising out of the use or inability to use the data contained herein. Fuel consumption figures are historically conservative approximations.
## TANK CAPACITIES

<table>
<thead>
<tr>
<th>TANK</th>
<th>FUEL OIL</th>
<th>FRESH WATER</th>
<th>METHANOL</th>
<th>DRILL WATER</th>
<th>OIL BASED MUD</th>
<th>BRINE</th>
<th>BASE OIL</th>
</tr>
</thead>
<tbody>
<tr>
<td>CARGO FUEL (6)</td>
<td>95.3</td>
<td>373.5</td>
<td>362.1</td>
<td>13.3</td>
<td>13.3</td>
<td>26.7</td>
<td>26.7</td>
</tr>
<tr>
<td>FRESH WATER (13)</td>
<td>2 x 50.5</td>
<td>2 x 77.7</td>
<td>2 x 64.0</td>
<td>2 x 53.6</td>
<td>155.3</td>
<td>157.5</td>
<td>48.3</td>
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<tr>
<td>METHANOL (2)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2 x 51.1</td>
<td>2 x 98.7</td>
<td>2 x 148.3</td>
</tr>
<tr>
<td>DRILL WATER (19)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2 x 69.9</td>
<td>2 x 119.8</td>
<td>2 x 70.6</td>
</tr>
<tr>
<td>OBM (4 + 4)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2 x 52.0</td>
<td>2 x 148.3</td>
<td>2 x 119.8</td>
</tr>
<tr>
<td>BRINE (4 + 4)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2 x 52.0</td>
<td>2 x 148.3</td>
<td>2 x 119.8</td>
</tr>
<tr>
<td>BASE OIL (2)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2 x 52.0</td>
<td>2 x 148.3</td>
<td>2 x 119.8</td>
</tr>
<tr>
<td>TOTAL</td>
<td>911</td>
<td>947</td>
<td>336</td>
<td>1,843</td>
<td>12,960</td>
<td>12,960</td>
<td>1,450</td>
</tr>
</tbody>
</table>

**Dark Blue** denotes primary function, **Light Blue** denotes secondary / tertiary function

These particulars should be taken as indicative and do not constitute a warranty.

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