### GENERAL
YARD NUMBER: S51232
DELIVERY DATE: February 2015
BASIC FUNCTIONS: Towing, mooring and fire-fighting operations
CLASSIFICATION: Lloyd’s Register

### DIMENSIONS
LENGTH O.A.: 28.67 m
BEAM O.A.: 10.43 m
DEPTH AT SIDES: 4.60 m
DRAUGHT: 4.94 m
DISPLACEMENT: 574 ton

### TANK CAPACITIES
<table>
<thead>
<tr>
<th>Fuel Type</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>FUEL OIL</td>
<td>74.5 m³</td>
</tr>
<tr>
<td>FRESH WATER</td>
<td>15.2 m³</td>
</tr>
<tr>
<td>FOAM</td>
<td>6.6 m³</td>
</tr>
<tr>
<td>LUBRICATION OIL</td>
<td>9.2 m³</td>
</tr>
<tr>
<td>DIRTY OIL</td>
<td>3.1 m³</td>
</tr>
<tr>
<td>SEWAGE</td>
<td>2.2 m³</td>
</tr>
<tr>
<td>SLUDGE</td>
<td>3.1 m³</td>
</tr>
<tr>
<td>BILGEWATER</td>
<td>5.2 m³</td>
</tr>
<tr>
<td>UREA</td>
<td>6.4 m³</td>
</tr>
</tbody>
</table>

### PERFORMANCES
<table>
<thead>
<tr>
<th>Performance</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOLLARD PULL AHEAD</td>
<td>60.7 ton(m)</td>
</tr>
<tr>
<td>BOLLARD PULL ASTERN</td>
<td>56.8 ton(m)</td>
</tr>
<tr>
<td>SPEED (DIESEL DIRECT)</td>
<td>13.4 knots</td>
</tr>
<tr>
<td>SPEED (DIESEL DIRECT)</td>
<td>13.2 knots</td>
</tr>
<tr>
<td>SPEED (DIESEL ELECTRIC)</td>
<td>8.8 knots</td>
</tr>
<tr>
<td>SPEED (BATTERY PACK)</td>
<td>4.0 knots (1 hour max)</td>
</tr>
</tbody>
</table>

### AUXILIARY EQUIPMENT
GENERAL GENERATOR SETS: 1x Caterpillar C4.4, 107 kW, 230/400 V, 50 Hz
BILGE PUMPS: 2x Sterling AKHA 5101 each 20 m³/h
FUEL PUMPS: Sterling AKHA 4101 and AOHA 3101
COOLING SYSTEM: Box cooling + anti-growth system
PRESSURE SET: Freshwater Sterling HBK 111 / AOHA 1202
HYDRAULIC SYSTEM: One electrically driven auxiliary pump
FIPI SET: Propulsion gen. diesel driven pump 1200 m³/h
FIPI MONITOR: 1200 m³/h, water/foam

### DECK LAYOUT
ANCHORS: 2x 360 kg Pool (High Holding Power)
CAPSTAN: Electrically driven two speed winch with split drum and warping head, pull 35 ton at 9.1 m/min, slack rope speed up to 28 m/min, 150 ton brake
CAPTAIN'S CABIN: Heila HLM 20-3S
CRANE: Mampaey 65 ton
TOWING WINCH AFT: Electrically driven two speed single drum, pull 35 ton at 9 m/min, slack rope speed up to 27 m/min, brake 150 ton
FENDERING: D-fender at sides, cylinder fender at transom corners, cylinder and W-block bow fender with water spray

### ACCOMMODATION
ACCOMMODATION: For 8 persons, insulated and finished with durable modern linings, acoustic ceiling in the wheelhouse, floating floors and air-conditioned. Captain’s cabin, chief engineer’s cabin, 3 double crew cabins, galley, mess/dayroom, dry store and sanitary facilities.

### NAUTICAL AND COMMUNICATION EQUIPMENT
SEARCHLIGHT: 2x Pesch 1000 W
RADAR SYSTEM: JRC JMA-5212-4BB with 19 inch screen
COMPASS/AUTOPILOT: Magnetic Kotter
AUTOPILOT: Simrad AP-70
ECHOSOUNDER: Furuno FE-350
VHF RADIO TELEPHONE: Furuno FS-1575
VHF HAND HELD: Furuno FL-20
NAVTEX: Furuno Felix 18
AIS: Furuno FA-150
SART: Furuno FS-1575
NAVTEX: Furuno Felcom 18
INMARSAT: Anschütz standard 22 compact

### PROPULSION SYSTEM
MAIN DIESEL ENGINES: 2x MTU 16V4000M63R
TOTAL DIESEL POWER: 3680 kW (4935 bhp) at 1600 rpm
PROPULSION GEN SET: 1x MTU 12V2000M41B, 800 kW, 440V-65Hz
EXHAUST GAS TREATMENT: DOC+DPF+SCR system, IMO Tier III compliant
BATTERY PACKS: 2x 230 kW
MAIN ELECTRIC ENGINES: 2x ABB M3LP450LA / 2x 230 kW
AZIMUTH THRUSTERS: 2x Rolls Royce US 205
PROPELLER DIAMETER: 2400 mm
FORCED VENTILATION: 550,000 m³/h