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**AUSTRALIAN  
 OFFSHORE  
 SERVICES**



## **m.v. LADY CAROLINE, LADY LORRAINE**

**7040 BHP ANCHOR HANDLING  
 TUG SUPPLY VESSELS**

### **LADY CAROLINE**

Call Sign VJOA  
 Built December 1981 State Dockyard, Newcastle, NSW.

### **LADY LORRAINE**

Call Sign VJOB  
 Built June 1982 State Dockyard, Newcastle, NSW.

### **CLASSIFICATION:**

DNV NV + 1A1 Supply Ship/Tug + MVEO

### **FLAG:**

Australian

### **DIMENSIONS:**

Length o.a.	64.65 m
Beam, moulded	13.80 m
Depth, moulded	6.90 m
Full load draft	6.00 m
G.R.T. 1179	N.R.T. 517

### **CAPACITIES:**

Deck cargo	about 800 tonnes
Clear deck space	36.5 x 10.7m
Deck loading	5 tonnes/m <sup>2</sup>
Total DWT	1816 tonnes (Lady Lorraine) 1921 tonnes (Lady Caroline)

Fuel oil	about 660 tonnes
Drill/ballast water	about 650 tonnes
Potable water	about 345 tonnes
Glycol	about 91 tonnes
Cement/bulk materials	4 low pressure tanks each 42.5cu. metres totalling 170cu. metres
Refrigerated storage	about 8cu. metres freezer and about 8cu. metres cooler

### **SPEED AND CONSUMPTION:**

Economical supply role	about 11 knots on about 9 tonnes/day.
Service speed	about 13 knots on about 15 tonnes/day.
Full power/towing	about 14 knots on about 20 tonnes/day.

### **TOWING AND ANCHOR HANDLING:**

Bollard Pull	67 tonnes at M.C.R.
Winch	Braatvaag low pressure hydraulic triple drum waterfall winch rated at 250 tonnes static and 150 tonnes at 6.8m/min Tow Drum 1000m x 64mm steel wire rope. Working Drums 500m x 64mm steel wire rope
Drum Capacity	Two non declutchable for 76mm rig chain
Rig Chain lifters	Two hydraulic vertical rope guide pins for 'd' stern roller with 25 tonnes static side thrust remotely controlled from bridge
Towing Bollards/Guides	3 66m x 1.83m diameter 250 tonnes S.W.L. 2 rig chain lockers are situated below winch with total capacity 150cu. metres, coated for carriage ballast/drill water.
Stern Roller	
Chain lockers	

### **MACHINERY:**

Main Engines	2 x 3520 BHP Nohab Polar F216V-825, totalling 7040 BHP, 2 x Ulstein CP propellers in fixed nozzles.
Bow Thruster	Ulstein 150-TV CP tunnel thruster driven by 725HP Caterpillar D-348 diesel 7 to thrust.
Electrical Generators	3 x Kato 230KW 415V Ac 50Hz driven 1 3 x Caterpillar D340B auxiliary engine 1 x Kato 125KW 415V AC 50Hz harbour driven by Caterpillar 3405 PCT engine

### **PUMPING:**

Fuel oil	190 cu. metres/hour at 60m head
Potable water	50cu. metres/hour at 60m head
Drill/Ballast water	Two pumps each capable 160cu. metres/hour at 60m head
Glycol	40cu. metres/hour at 60m head
Bulk materials	Two compressors each rated 11 4cu. metres/minute at 420 kPa discharge rate about 25cu. metres/hour against total head 40m.

### **EXTERNAL FIREFIGHTING:**

One Skum manual fire monitor fitted with water barrel and spray deflector mounted on walkway between funnels. capacity 10000 litres/minute range 100 metres.

### **ANCHORS AND MOORING:**

Anchors	2 x AC-14 high holding anchors
Cables	2 x 500m x 34mm U3 high strength st- cable
Tugger Winch	2 x Braatvaag low pressure hydraulic tonne S.W.L. with drum capacity 300- 34mm steel wire rope equipped for re- control
Capstans	2 x Braatvaag low pressure electro hydraulic 10 tonne S.W.L. at aft end of deck with local controls

### **ACCOMMODATION:**

Crew	9 x 1 berth
Contractor	2 x 1 berth
Passengers	2 x 6 berth
Fully airconditioned	

### **ELECTRONICS:**

Radars	2 x Decca R.M. 916c
Echo Sounder	Simrad EN 1C
Auto Pilot	Decca 550 Gyro and Magnetic
Gyro Compass	Plath Navigat 2
Radio main	Sailor R1117 T1127
standby	Sailor R 110 T 124
VHF	Sailor R1144B

### **LIFESAVING EQUIPMENT:**

One 4.7m 35hp rescue boat and launching davit on bridge deck  
 Statutory life rafts, life buoys, life jackets and flares

### **MISCELLANEOUS:**

Two 415V 3-phase 50 Hz reefer container power outlets on work  
 deck Enclosed control room overlooking work deck with remote  
 controls for anchor handling winch, tuggers and pins.

Spark arresters fitted to engine silencers