

VESSEL SPECIFICATIONS
M.V. Pat Lyall



Pusher – Towing Tug

REGISTRATION

Built by	Allied Shipbuilders Ltd. Vancouver, B.C.
Owner	Northern Transportation Company Limited 42003 Mackenzie Highway Hay River, Northwest Territories Canada X0E 0R9
Port of Registry	Vancouver
Official Number	330881
Radio Call Sign	VC6748
ASPPR – Ice Class	Type E
Certification	Home Trade II – Western Arctic
Flag	Canadian

PRINCIPAL DIMENSIONS

Length O.A.	180'0"
Breadth Moulded	40'0"
Depth Moulded	10'6"
Light Draft	5'6"
Loaded Draft	6'6"
Dual operating draft capabilities for Mackenzie River/Beaufort Sea Operations	
Gross Tonnage	669
Net Tonnage	442
Accommodation	13 crew 5 Supernumeraries

**NAVIGATION AND
COMMUNICATION EQUIPMENT**

- 2 – Radars
- 2 – Gyrocompasses
- 1 – Satellite Navigator
- 1 – Marinefax
- 1 – Direction Finder
- 1 – Recording Echo Sounder
- 1 – Flashing Echo Sounder
- 3 – Searchlights
- 1 – Mobile Telephone, Northwestel network
- 2 – VHF Radio Telephones
- 2 – HF Radio Telephones, single side band
- 2 – Loudhailers
- 1 – Watchkeeping Receiver
- 1 – E.P.I.R.B.
- 1 – Magnetic Compass

CAPACITIES

Fuel	300,000 litres/66,000 Imp. gallons
Lube Oil	4,100 litres/900 Imp. gallons
Fresh Water	111,000 litres/24,400 Imp. gallons
Desalinator	2,000 litres per day/ 440 Imp. gallons per day

REFRIGERATED STORAGE

Freezer	455.5 cubic feet
Cooler	559.3 cubic feet
Storage	
Dry Goods	1040.0 cubic feet

MACHINERY

Main Engines	2 - GM, EMD, V12, 645E5 Developing 2150 HP each at 900 RPM
Reduction Gears	2 - Lufkin RS2520 Rated 2100 HP Ratio 1.532:1
Propellers	2 - Inboard turning 60" dia x 42 1/2" pitch (open)
Rudders	Four
Auxiliary Generators	2 - GM Detroit Diesel RC6045 (6-71) c/w Delco 440V, 3PH, 60 HZ, 100 KW each
Fuel	
Consumption	525 litres per hour
Range	6,600 nautical miles
Speed	12 knots light vessel 7 knots towing

DECK EQUIPMENT

Towing Winch	1 - Swann single drum hydraulic Drum capacity - 2,200' of 1 3/4" SWR
Anchor Windlass	1 - Swann with two 14" Warring Heads
Anchors	2 - 2,000 lb Navy 2 - 90 FMS (540') of 1 1/4" chain
Hook-up Winches	2 - 40 ton hydraulic 2 - 40 ton hand with 125' of 1 1/4" cable on each 2 - Manoeuvring Control Stations - winch controls at after station

