



Asphalt/Black Products Tanker

General:	Designed for worldwide transportation of asphalt/black products with temperatures up to 180 degree Centigrade in 2x6 sections (12 tanks). The vessel is specially designed for operation on the St. Lawrence Seaway and has PC3 ice class. The machinery is arranged for operation on dual-fuel.	
Main Particulars:	Length o.a.	135.00 m
	Length p.p.	128.00 m
	Breadth moulded	23.50 m
	Depth to main deck	11.30 m
	Scantling draught	7.70 m
	Design draught	7.60 m
	Deadweight at design draught	abt 14,160 t
Capacity:	Cargo tanks	abt. 14,500 cbm
Speed:	Service (90 % MCR)	13.00 kn
Machinery and Equipment:	MDO, HFO, LNG	
	Main engine	1 x MAN B&W or WSD Licence (MHI, HHI or Doosan) 7G40ME-B9.3-GI (Tier II) or similar approx. 5,350 kW at 110 rpm.
	SMCR	3 x 1,300 kW
	Aux. power	750 kW
	Bow thruster	550 kW
	Stern thruster	
Miscellaneous:	Classification	DNV, 1A1 Tanker for Asphalt/Bitumen/Oil, ESP, Winterized Cold (-30), SPM, E0, NAUT-OC, VCS-2, BIS, TMON, CLEAN-DESIGN. or corresponding notation in the case of LR (as delegated Class Societies for Transport Canada).
Scope of Work:	Concept Design and Tender Design, including; General Arrangement and machinery/cargo arrangement Tender specification Midship section and strength calculations Detailed weight and centre of gravity calculations, including weight distribution Lines plans Intact stability calculations Damage stability calculations CFD Lines optimisation Layout of cargo pipe system and cargo tank heating calculation Initial calculations for machinery systems, including LNG plant	
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