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
- SMCR approx. 5,350 kW at 110 rpm.
- Aux. power 3 x 1,300 kWe
- Bow thruster 750 kW
- Stern thruster 550 kW

**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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