



# Sirius T31

## 7990 DWT Oil & Chemical Tanker IMO II

### GENERAL

The SIRIUS T31 is a 7990 dwt , TIER III oil and product tanker for chemicals (IMO II and III). It is designed for trading in SECA area with low fuel consumption, low emissions and high cargo capacity up to density of 1,54 ton/m<sup>3</sup>.

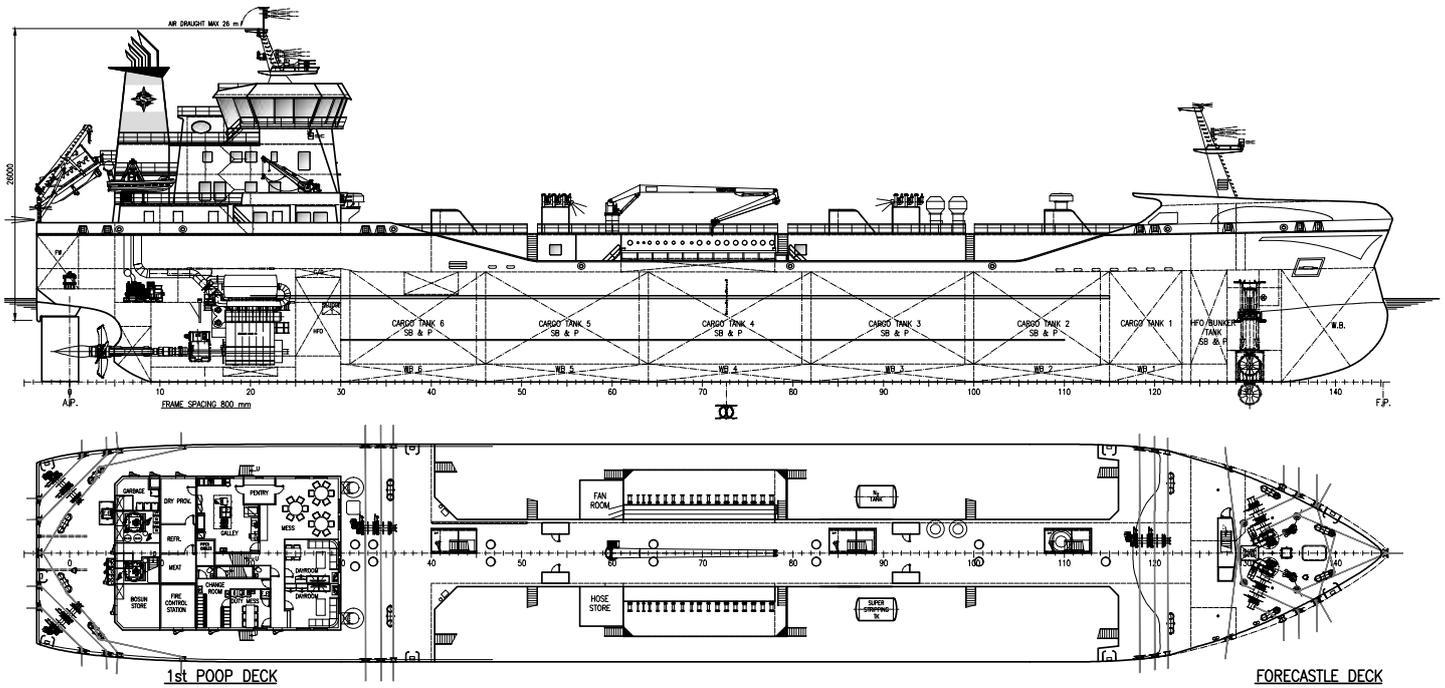
The hull form is designed for good performance in harsh weather conditions with double skin. Tanker is LNG ready and fulfil future EEDI requirement and Finnish/Swedish ice class 1A.

By keeping the dead weight under 8000 this vessel can be relived for the inertgas boiler.

Tanker is designed with 6 segregations divided into 11 cargo tanks and 2 slop tanks on main deck, Propulsion is provided by a two stroke main engine with shaft generator coupled to a CP propeller. PTI 'Take me home' device, through a retractable bow thruster powered from the auxiliaries. To save fuel, the shaft generator is connected via a frequency converter allowing optimum propeller rpm at various speeds.

The propeller to be of 4-bladed made of Ni-Al-Bronze and to be of low noise type. SCR catalyser is installed at both ME and AUX engine exhaust gas system. System to guarantee a NOx level of below 2gr/kWh, which is below the coming rules for NOX reduction. System to be designed for 40% urea solution.

The deck strength and vessel stability prepared for installation of two 200 m<sup>3</sup> independent LNG type C tanks (vacuum insulated type).

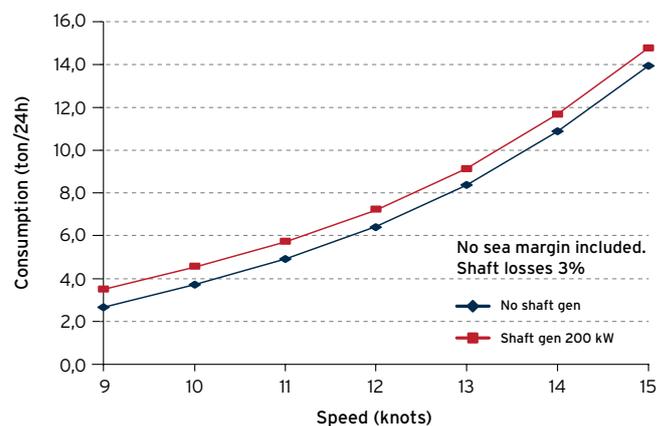


## MAIN PARTICULARS

|   |   |
|---|---|
| Length over all                           | 119,90 m  |
| Length between PP                         | 116,80 m  |
| Breadth mld                               | 19,40 m   |
| Depth mld                                 | 10,00m  |
| Draught design                            | 7,35 m  |
| Draught scantling                         | 7,40m   |
| Deadweight at design draught              | 7 999 tonnes  |
| Cargo capacity, incl Slop                 | 9 700 m <sup>3</sup>                                |
| Slop                                      | 150 m <sup>3</sup>                                  |
| FO tanks (HFO & MGO)                      | 360 + 90 m <sup>3</sup>                             |
| (Optional LNG tanks)                      | 2x 200 m <sup>3</sup> )                             |
| Technical FW tanks                        | 250 m <sup>3</sup>                                  |
| Domestic FW tanks                         | 120 m <sup>3</sup>                                  |
| Urea tanks                                | 45 m <sup>3</sup>                                   |
| Water ballast                             | 3 800 m <sup>3</sup>                                |
| Loading rate                              | 1 200 m <sup>3</sup> /hr                            |
| Discharge rate                            | 1 980 m <sup>3</sup> /h                             |
| Main engine                               | Two stroke B&W 6S35 ME<br>B9.5 4 500 kW at 144 rpm  |
| Aux engines                               | MITSUBISHI S6R2 -T2MPTC<br>3x520kW at max 1 500 rpm |
| Shaft generator                           | SAM 600 kW  |
| 2x thermal oil boilers with 1 500kW each  |   |
| 1x exhaust gas boiler at abt 600kW        |   |
| at main engine Catamiser at the auxiliary |   |

|               |                            |
|---------------|----------------------------|
| Bow thruster  | 800 kW                     |
| Cargo pumps   | 11 x 330 m <sup>3</sup> /h |
| Ballast pumps | 2 x 500 m <sup>3</sup> /h  |
| Accommodation | 15 persons                 |
| Gross tonnage | 7 213                      |
| Net tonnage   | 3 241                      |
| EEDI          | 11,27                      |

## Predicted Fuel Consumption



Service speed 14,3 knots at draught 7,35m at 85% MCR with 15% sea margin.

## CLASS

BUREAU VERITAS I, +HULL, +MACH, CHEMICAL TANKER IMO TYPE II/Oil TANKER, ESP, Unrestricted Navigation, ICE CLASS 1A, +AUT-UMS, MON-SHAFT, SYS-NEQ-1, AVM-APS, INWATERSURVEY, CLEANSHIP, BWT, Green Passport, EWCT.