

TYPE APPROVAL DESIGN CERTIFICATE

This is to certify:

That the Lubricating Oil Filter

with type designation(s)
COT Oil Refiner System - COT 600

Issued to
COT-Clean Oil Technology AB
LJUNGBY, Sweden

is found to comply with
DNV rules for classification – Ships Pt.4 Ch.6 Piping systems

Application :

By pass lubricating oil filtration unit.
Max. working temp.: + 90°C
Max. working press.: 6bar (air), 30bar (oil inlet pressure)
Sizes: Oil flow > 1l/min, Max. oil tank volume 1000l

Issued at **Hamburg** on **2025-07-22**

This Certificate is valid until **2030-07-21** .

DNV local unit: **Denmark CMC**

Approval Engineer: **Hagen Markus**

for **DNV**

Sven Klinger
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Product description

Oil refiner system for continuous reduction of free and dissolved water.

Approved configurations and accessories see COT 600 User Manual, Installation Guide Service Instruction

Technical Data

Electrical

Voltage: 24V DC (230 VDC pre-heater)

Power consumption at start: 200 W

Power consumptions during operation: up to 150W

Media flows

Minimum oil flow: 1 l/min 0.26 US gal/min

Compressed Air: 5 l/min 36-85fl.oz

Media pressure

Max Working Pressure (air): 6 bar 87 psi

Oil inlet pressure

Minimum.: 10 bar@ 36 cST* 145 psi@36cST*

Maximum: 30 bar

Media temperatures and viscosities

Recommended oil inlet temperature: + 40°C to + 50°C (+122-140 °F)

Pre heating recommended at oil inlet temperature: < 30°C

Environmental condition

Installation area - 25°C up to + 45°C

Main Oil Tank Size: < 1000 l < 264.2 gal

Application/Limitation

Oil refiner system for continuous reduction of free and dissolved water from hydraulic and lubrication oils.

Oil Inlet Viscosity: 0-80 cst hydraulic oils, lubrication oil 80-350 cst.

Rec. Cleanliness level (oil): 19/17/14 (ISO 4406:1999; 4 µm/6 µm/14 µm).

The COT600 is arranged in by-pass stream from storage tanks. Main oil tank size according to COT manual, section 3.

This Type Approval covers the design in compliance with applicable DNV Rules. i.e. the Type Approval is valid for the final product as basis for obtaining a product certificate (PC).

The certificate is not valid for designs, components, equipment, systems or products which are subject to classification by DNV.

Installation

The COT Clean Oil system shall not be installed immediately above or near units of elevated temperature such as boilers, steam pipelines, exhaust manifolds, silencers or other equipment required to be insulated.

As far as practicable, it shall be arranged far apart from hot surfaces, electrical installations or other sources of ignition or shall be screened or otherwise suitable protected to avoid liquid spray or liquid leakage onto the sources of ignition (see SOLAS Ch. II-2/Reg.4.2.2.5.3).

Type Approval documentation

Tests carried out

Type test scope

- Heating test "Long-term heat test COT600"
- EMC test

Marking of product

Name plate on each unit, example.



Periodical assessment

Not applicable