



Water Analysis Service

Wilhelmsen Ships Service offers the Water analysis service to provide technical assistance to customers. We carry out tests for Brine, Hycool, Boiler and Cooling water samples. Equipment manufacturers recommend 3rd party analysis at regular intervals. Additionally this service can be used to identify and solve problems with water treatment. A laboratory report with technical recommendations is issued, when analysis are complete.

- Use the convenient Sample Kit
- Collect samples on your vessel
- Fill out sample information form
- Send samples to:
Wilhelmsen Chemicals
Att: Water Laboratory
Kirkeveien 578, NO-3143 Kjøepmannskjaer Norway
Email: water.laboratory@wilhelmsen.com
- We recommend to use a Courier Service for sample shipment. Samples should arrive at the laboratory within 14 days.
- An order will be created according to number of water samples sent. One order per sample bottle
- Sample volume: 500ml
- Water samples will be analysed at laboratory
- Recommendations given by chemical experts
- Laboratory report by e-mail within 10 working days from receipt of water samples, forms and an order is placed.
- Laboratory report will be uploaded in Waterproof
- Invoice will be sent according to order

Water Sample Kit

Convenient water sample kit for sending water analyses. Contains: 2 x 500ml sample bottles and sample information forms. Expected sample turnaround is 10 days from receipt of sample and correct ordering information.

Cooling Water Test

Analysis of cooling water or related make-up water including test report and recommendations in compliance with manufacturer’s recommendations. Analysis cover the following elements (detection limits in brackets):

Cooling Water - Analysis specifications			
Nitrite (NO2)	[2 mg/L]	Nitrate (NO₃)	[0.5 mg/L]
Chloride (Cl)	[0.5 mg/L]	Sulphate (SO₄)	[0.5 mg/L]
Iron (Fe)	[0.1 mg/L]	Copper (Cu)	[0.1 mg/L]
Zinc (Zn)	[0.1 mg/L]	Aluminum (Al)	[0.1 mg/L]
Calcium (Ca)	[0.1 mg/L]	Magnesium (Mg)	[0.1 mg/L]
Silicon (Si)	[0.1 mg/L]	Conductivity	[1 µS]
Bacteria (total count)		Hardness	[1 mg/L]
		pH	

Boiler Water Test

Analysis of boiler water or related make-up, feed water or condensate including test report and recommendations. The analyses are suitable for systems with pressures up to 31 bar. Analysis of the following elements (detection limits in brackets):
* Lower detection limits are available on request for HP boilers.

Boiler Water - Analysis specifications			
P-alkalinity	[10 mg/L]	Sulphate (SO₄)	[0.5 mg/L]
Chloride (Cl)	[0.5 mg/L]	Copper (Cu)	[0.05 mg/L]*
Iron (Fe)	[0.1 mg/L]*	Aluminum (Al)	[0.1 mg/L]*
Zinc (Zn)	[0.1 mg/L]*	Magnesium (Mg)	[0.1 mg/L]*
Calcium (Ca)	[0.1 mg/L]*	Conductivity	[1 µS]
Silicon (Si)	[0.1 mg/L]*	Hardness	[1 mg/L]
Phosphate (PO₄)		pH	

Brine Water Test

Test to check brine properties and to verify the level of Brine Corrosion Inhibitor in brine systems. Analysis cover the following elements (detection limits in brackets):

Brine - Analysis specifications			
Boron Iron	[1 mg/L]	Aluminum (Al)	[1 mg/L]
Iron (Fe)	[1 mg/L]	Magnesium (Mg)	[1 mg/L]
Zinc (Zn)	[1 mg/L]	Density, 20°C	[g/cm3]
Calcium (Ca)	[10 mg/L]	Conductivity	[1 µS]
Copper (Cu)	[1 µS]	pH	

Hycool Test

Test to check degradation of Hycool. Analysis cover the following elements (detection limits in brackets):

Hycool - Analysis specifications			
Iron (Fe)	[0,1 mg/kg]	Inhibitor A	[1 mg/kg]
Copper (Cu)	[0,1 mg/kg]	Inhibitor B	[1 mg/kg]
Potassium (K)	[10 mg/kg]	Conductivity	[1 µS]
Density, 20°C	[g/cm3]	pH	

Product details

Product	Application	Product Number
Water Sample Kit	2 x 500ml bottles for water	767164
Cooling Water Test	Test of cooling water to resolve problems and comply with engine manufacturers guidelines	777548
Boiler Water Test	Test of boiler water to resolve problems with boiler systems	777549
Brine Test	Test of inhibitor levels in brine samples	777620
Hycool Degradation Analysis	Test of inhibitor levels in Hycool samples	750150

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Contact your local WSS customer services for prices and worldwide availability.