



Fuel Oil Treatment – Questionnaire

Company _____

Contact Person _____

Address _____

Telephone _____

Telefax _____

Email _____

Type of Industry _____

Please fill in this questionnaire for each boiler or furnace.

If there are more identical boilers or furnaces, please show on boiler manufacturer line the number of boilers with the same characteristics.

GENERAL INFORMATION

Boiler Manufacturer _____

Boiler No. _____

Operating hours per year _____

Max. Steam Production (t/h) _____

Average Steam Production (t/h) _____

Minimum Operational Load (t/h) _____

Steam Pressure (MPa) _____

Boiler (or Furnace) burning Fuel Oil Gas and Oil
 Coal and Oil

Spray Water to control SH-RH temperatures yes no

Banks arrangement of SH-RH section vertical horizontal

Spray water maximum flow (t/h) SH _____ RH _____



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AIR-HEATER

Air-heater type

Rotary

Static

If static, flue gas is

inside tubes

outside tubes

EXCESS AIR

max load

min load

Excess air before air-heater (% O₂)

Excess air after air-heater (% O₂)

TEMPERATURES

max load

min load

Exit gas temperature @ air-heater outlet (°C)

Air temperature @ air-heater inlet (°C)

PROBLEM REPORT

Hard deposits in SH-RH sections

yes

no

Corrosion in SH-RH sections

yes

no

Plugging in SH-RH sections

yes

no

Plugging in the economiser

yes

no

Corrosion in the economiser

yes

no

Plugging in air-heater

yes

no

Corrosion in air-heater

yes

no

Standby corrosions

yes

no

High dust load at stack

yes

no

Acid smut formation

yes

no

Frequency of air heater washing



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FUEL OIL

| | max load | min load |
|----------------------------|----------|----------|
| Fuel oil consumption (t/h) | _____ | _____ |

Fuel oil characteristics

| | | |
|-------------|-------|--------|
| Nitrogen | _____ | % N |
| Sodium | _____ | ppm Na |
| Vanadium | _____ | ppm V |
| Nickel | _____ | ppm Ni |
| Sulphur | _____ | % S |
| Asphaltenes | _____ | % |
| Conradson | _____ | % |
| Ash | _____ | % |

Atomisation

| | Oil pressure | Steam/Air pressure |
|-------------------------------------|--------------|--------------------|
| <input type="checkbox"/> by steam | _____ | _____ |
| <input type="checkbox"/> by air | _____ | _____ |
| <input type="checkbox"/> mechanical | _____ | |

In case of continuous recirculation of fuel oil after the regulating valve, the return goes to:

- Suction side of booster pumps
- Day tank
- Main storage tank

Storage

| | Volume (m ³) | temperature (°C) |
|--------------|--------------------------|------------------|
| Day tank | _____ | _____ |
| Main storage | _____ | _____ |

Cost of fuel oil

Atomising steam consumption (per ton of fuel) _____

Soot blowing steam consumption (average/day) _____



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PRIVACY STATEMENT

Pentol will always protect the personal information that you share with us. Pentol stores information internally in a controlled, secure environment. Your personal information will not be given to any 3rd party. The only purpose of this questionnaire is to enable your Pentol contact to offer optimal solutions for your application.

SUBMIT INFORMATION

Please print this form and fax it to our agent or to

Pentol GmbH
Degussaweg 1
D-79639 Grenzach-Wyhlen
Germany

Tel. +49.7624.300 0
Fax. +49.7624.300 190

fot@pentol.com

THANK YOU

Thank you for taking the time to fill in this form. We will contact you as soon as your information is processed.

Date: _____

Signature: _____