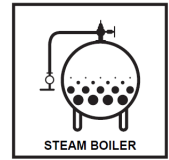




INTERNATIONAL, INC.

P. O. BOX 528
VAN VLECK, TEXAS 77482

Industrial • Oilfield • Environmental



2025 – Version 1

TECHNICAL DATASHEET (TDS)
HIGH PRESSURE STEAM BOILER
COMPLETING THE TDS STEAM BOILER SHEET

HIGH PRESSURE STEAM BOILER AUDIT

CUSTOMER IDENTIFICATION:

- Name : _____
- Adress : _____
- System : _____
- Boiler Manufacturer : _____
- Year of construction : _____

TECHNICAL DETAILS:

TYPE OF BOILER :

- Instantaneous steam generator :
- Shell boiler :
- Water tube boiler :
- Once through boiler :
- HRSG :
- Number of pressure stages :
- Natural circulation boiler :
- Forced circulation boiler :
- Type of energy : _____
- Other details : _____



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SYSTEM PARAMETERS :

- Operating pressure (bar) / (spi) :

- Design pressure (bar) / (spi) :

- Steam temperature (C°) – (F°) :

- Steam capacity (tons/hour) :

- Make-up water (tons/hour) :

- Feedwater (tons/hour) :

- Blow down (tons/hour) :

- Condensate return (%) - (tons/hour) :

- COC :

- Superheater (Y/N) :

- Attemperator (Y/N) :

- Air cooled condenser (Y/N) :

- Feedwater temperature (C°) – (F°) :

- Degassing system (C°) – (F°) / (bar) / (spi) :

No :

Thermal :

Catalytic :

SPECIFIC SYSTEM DATA :

- Condensate Polishing Unit (CPU) (Y/N) :

Type of resin :
Manufacturer :

- Turbine (Y/N) :

Type of turbine :
Manufacturer :
Generation capacity (MW):

STEAM QUALITY :

- Direct contact of steam with food or pharmaceutical products (Y/N) :

- Direct contact of steam with industrial processes, catalyst, etc.; (Y/N) :

Information about process, catalyst, etc... :

WATER TREATMENT :

- Quality and Origin of the make up water :

- Preparation of the make up water :

- Current treatment :

- Specific materials in place :

- Dosing equipment :

- Viton seal in place (Y/N) :

- Injection point :



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➤ Chemical analysis made (Y/N) :

➤ Issues met (Y/N) :

➤ Requested improvements (Y/N) :

➤ Other details :



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AVERAGE WATER ANALYSIS:

Parameter	Make-up water			Unit
	Analysis	According to		
		Guideline *	Boiler manuf.	
pH				
direct cond.				μS/cm
acid cond.				μS/cm
TH				mmol/l
Ca				mmol/l
K (p-Alk.)				mmol/l
K (m-Alk.)				mmol/l
Cl ⁻				mg/l
SiO ₂				mg/l
Fe				μg/l
Cu				μg/l
Na				μg/l
O ₂				μg/l
TOC				mg/l
SO ₃ ²⁻				mg/l
PO ₄ ³⁻				mg/l
FFAs				mg/l

Parameter	Feedwater			Unit
	Analysis	According to		
		Guideline *	Boiler manuf.	
pH				
direct cond.				μS/cm
acid cond.				μS/cm
TH				mmol/l
Ca				mmol/l
K (p-Alk.)				mmol/l
K (m-Alk.)				mmol/l
Cl ⁻				mg/l
SiO ₂				mg/l
Fe				μg/l
Cu				μg/l
Na				μg/l
O ₂				μg/l
TOC				mg/l
SO ₃ ²⁻				mg/l
PO ₄ ³⁻				mg/l
FFAs				mg/l



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Parameter	Boiler			Unit
	Analysis	According to		
		Guideline *	Boiler manuf.	
pH				
direct cond.				μS/cm
acid cond.				μS/cm
TH				mmol/l
Ca				mmol/l
K (p-Alk.)				mmol/l
K (m-Alk.)				mmol/l
Cl ⁻				mg/l
SiO ₂				mg/l
Fe				μg/l
Cu				μg/l
Na				μg/l
O ₂				μg/l
TOC				mg/l
SO ₃ ²⁻				mg/l
PO ₄ ³⁻				mg/l
FFAs				mg/l

Parameter	Condensate / Steam			Unit
	Analysis	According to		
		Guideline *	Boiler manuf.	
pH				
direct cond.				μS/cm
acid cond.				μS/cm
TH				mmol/l
Ca				mmol/l
K (p-Alk.)				mmol/l
K (m-Alk.)				mmol/l
Cl ⁻				mg/l
SiO ₂				mg/l
Fe				μg/l
Cu				μg/l
Na				μg/l
O ₂				μg/l
TOC				mg/l
SO ₃ ²⁻				mg/l
PO ₄ ³⁻				mg/l
FFAs				mg/l

Guidelines : e. g. DIN EN, VGB, EPRI etc.

DIAGRAM + COMMENTS:

