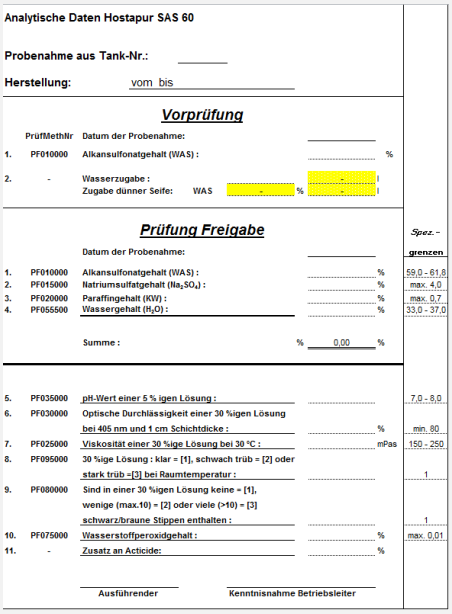
# Plant Historian LAB

## Laboratory data acquisition

LIMS: Laboratory information management system

***Plant Historian LAB – laboratory data acquisition – is a system for laboratory data acquisition and analysis. Plant Historian LAB is designed to acquire actual value and provide informative trend and variance diagrams in a central, corporate-wide system. Furthermore, violations of threshold values can be identified and reported immediately. Users of Plant Historian benefit mainly from the real-time data acquisition as well as from short response times in case of threshold value violations.***



Analytische Daten Hostapur SAS 60

Probenahme aus Tank-Nr.: _____

Herstellung: vom bis

**Vorprüfung**

| | PrüfMethNr | | | |
|---|---|---|---|---|
| | | Datum der Probenahme: | | |
| 1. | PF010000 | Alkansulfonatgehalt (WAS) : | | % |
| 2. | - | Wasserzugabe : | | l |
| | | Zugabe dünner Seife: WAS | % | l |

**Prüfung Freigabe**

| | | | | Spez.-grenzen |
|---|---|---|---|---|
| | | Datum der Probenahme: | | |
| 1. | PF010000 | Alkansulfonatgehalt (WAS) : | % | 59,0 - 61,8 |
| 2. | PF015000 | Natriumsulfatgehalt ($Na_2SO_4$) : | % | max. 4,0 |
| 3. | PF020000 | Paraffingehalt (KW) : | % | max. 0,7 |
| 4. | PF055500 | Wassergehalt ($H_2O$) : | % | 33,0 - 37,0 |
| | | Summe : | % 0,00 % | |
| 5. | PF035000 | pH-Wert einer 5 %igen Lösung : | | 7,0 - 8,0 |
| 6. | PF030000 | Optische Durchlässigkeit einer 30 %igen Lösung bei 405 nm und 1 cm Schichtdicke : | % | min. 80 |
| 7. | PF025000 | Viskosität einer 30 %ige Lösung bei 30 °C : | mPas | 150 - 250 |
| 8. | PF095000 | 30 %ige Lösung : klar = [1], schwach trüb = [2] oder stark trüb =[3] bei Raumtemperatur : | | 1 |
| 9. | PF080000 | Sind in einer 30 %igen Lösung keine = [1], wenige (max.10) = [2] oder viele (>10) = [3] schwarz/braune Stippen enthalten : | | 1 |
| 10. | PF075000 | Wasserstoffperoxidgehalt : | % | max. 0,01 |
| 11. | - | Zusatz an Acticide: | % | |

Ausführender | Kenntnisnahme Betriebsleiter

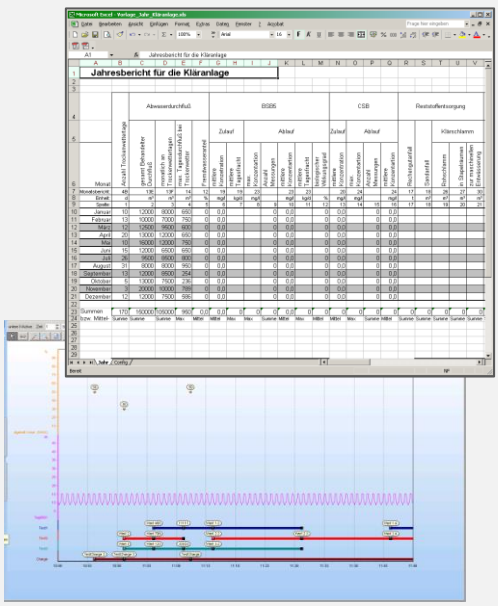
**Plant Historian LAB** offers flexible and intuitive analysis tools. A large number of visualization options provides a customizable data analysis. Individual trend graphs and analysis parameters support the implementation of a continuous analysis and improvement process.

**Plant Historian LAB** provides relevant information in standard documents, e.g.:

- Identification of process failures and error sources
- Customizable analysis options
- Reports in standard PDF or Excel documents
- Connection of laboratory, event and trend information

## Functions:

- Manual or automatic laboratory data acquisition
- Trend analysis with visualization of related PCS events
- Real-time notifications of threshold value violations
- Possibility to compare measurement results
- Manual or automatic PDF or Excel reports
- Calculation tags: connect tags via mathematical operators and functions
- Customizable analysis functions: create and save layouts and trend groups
- Several analysis and visualization tools, e. g.:
  - Real-time visualization
  - Measuring tape function
  - Customizable coordinate system
- Data output in Excel or PDF documents
- Filling of existing Excel templates with actual value data
- Batch-based analysis and trend visualization




**PCS-independent - scalable - intuitive**

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## Laboratory data acquisition

LIMS: Laboratory information management system

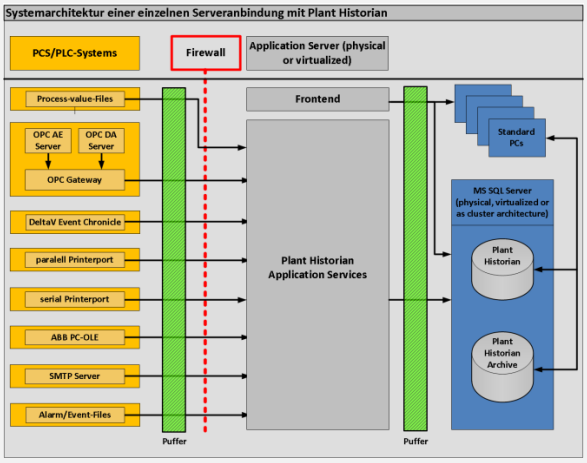
## Benefits:

- Identifies process failures and error causes
- Ensures data acquisition, data archiving and fast response times
- Document and backtrack measurement entries
- Notifies supervisors in case of incorrect measurement entries
- Triggers escalation process in case of threshold value violation and provides employees with procedural instructions
- Connects laboratory, event and trend information in one system
- Generates production relevant documents automatically
  - e. g. KPIs reports, shift reports, authority logs
- Visualizes the production status
- Intuitive analysis tool: easy, clear, customizable
- Batch-based analysis

**Plant Historian LAB** provides a **gapless acquisition** of laboratory data, **fast reaction times** in case of escalation as well as **intuitive analysis tools.**

## Technologies:

- Standardized interfaces to your PCS/PLC environment
- Siemens-approved OPC gateway
- OPC printer interface for any kind of control system
- Central SQL database and application server
- High availability due to buffering structures and redundancies
- Scalable system: add new PCS/PLC connections any time
- Menu-based installation




**PCS-independent - scalable - intuitive**