



amine eXperts

Amine Analytical Service Program

Amine Experts provides accurate laboratory analysis and evaluation of amine samples. This information is used to assist clients in evaluating amine system operation and troubleshooting performance issues. Routine analysis of amine samples establishes a valuable operating history data set that can eliminate, or significantly reduce the time and cost of system troubleshooting.

Amine Experts' analysis report includes:

- mass balance closure
- several built in cross checks on the results
- trend analysis
- comments on significance of results
- target values for the most important parameters

Routine Analysis

- amine concentration by GC
- water content
- H₂S & CO₂ loading
- degradation products by GC
- heat stable amine salts
- suspended particulates
- metal scan (Fe, Mn, Cr, Ni, K, Na)
- chlorides
- hydrocarbon content
- foam test
- visual appearance
- evaluation report and targets

Optional

Ion Chromatograph breakdown of heat stable salt content



Amine Analysis Request Form:

Company Name & Address: _____

Company Representative: _____
Phone: _____
Fax: _____
Amine System Name: _____
Location: _____
Amine Type: _____

Analysis Required

- Routine
- Other (specify) _____

System Information – please list any problems with the system when these samples were taken (if any)

Sample Preparation

Sample quality:

- well-regenerated lean amine, which is almost free of H₂S.
- *Rich amine samples must not be shipped for analysis.*

Sample packing:

- amine samples should be shipped in sealed glass or plastic bottles.
- sample size: 0.5 litre
- sample bottle should be filled almost to the top, leaving just enough volume for liquid expansion.
- bottle must be properly protected in an appropriate shipping container with MSDS (Material Safety Data Sheet) attached.
- bottle must be labelled, indicating the time, date and location (unit) that the sample was taken.

Sample Shipment:

- amine samples for laboratory analysis should be sent by DHL or TNT courier (use of a courier can save as much as two weeks in transportation time).
- Please advise Amine Experts by e-mail of any shipment and include the courier waybill number.

Amine Experts

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