Taking Retain Samples

The aim of taking retain samples is the documentation of the current quality status of the product. As a rule, certain causes of problems with the product can be identified and complaints about their accuracy can be checked. The informative value of a retain sample depends largely on the circumstances during the sampling.

This leaflet describes the key points about organization and requirements for sampling.

Requirements for sampling

In principle, the requirements of **DIN EN ISO 3170**¹ - *Petroleum Liquids - Manual sampling* must be adhered to when sampling liquid fuels.

Take a representative sample (draw a flow quantity dependent on the sampling point to ensure that actual fuel is freshly withdrawn from the tank). If taken directly from tanks, use the prescribed draft method or make a mixed sample from the start, middle and end of the discharge (for example, for vehicles with bottom-only loading).

The **sample containers** must be suitable, clean and dry. Never use test tubes intended for use with food. Fill the vessels as completely as possible and with as little air entrapment as possible. For biodiesel and mineral diesel fuel tin canisters with press-fit lids are well-proven.

Take a **sufficient sample quantity** (at least 1 l) to ensure that all tests can be carried out in accordance with standards.

Organisation of Sampling

Sampling should always be recorded in a sampling protocol. A special form is not defined for this purpose. Nevertheless, the following minimum information should be included:

- Reason of sampling
- Place of sampling
- · Date of sampling
- Type of sampling (outlet, put-through, bottom sample, etc.)
- Name of the sampler
- Sample taken (also divided in different vessels)
- Special circumstanced when taking samples (weather, statements from other persons, etc.)
- Reciprocal agreements to recognize a sample as "representative"
- Signature of the sampler and at least one witness on the sampling protocol

An example of such a sampling protocol can be found at the end of this leaflet.

The sample containers must be labelled unambiguously and legibly (ensure assignment to the sampling protocol) and sealed in such a way that subsequent changes to the sample are clearly visible, possibly seale.

In each case, three similar samples should be prepared (1 sample for the own company, 1 sample for the trading partner, 1 arbitration sample). Store samples in a dry place at temperatures between 8-15 °C. The retention period should be at least 3 months. A sample storage beyond 6 months does not make sense.

Note

The leaflet is a summary of the experience of the AGQM and its members and has been compiled with the utmost care. Nevertheless, no guarantee can be given for the accuracy, completeness and timeliness of the content provided. For this reason, we exclude any liability in connection with the use of the leaflet.

Publisher:

Arbeitsgemeinschaft Qualitätsmanagement Biodiesel e.V. Am Weidendamm 1A 10117 Berlin Germany

Phone: +49 (30)/ 726 259-80 E-Mail: info@agqm-biodiesel.de Internet: www.agqm-biodiesel.de

BIODIESELE:

Issued: 06/2018

 $^{^{}m 1}$ Beuth-Verlag, www.beuth.de

Taking Retain Samples

Sampling Protocol - Example

					ID:		
Company					<u> </u>		
Street							
Postal Code, City							
Information on Sampling The manufacturer makes use of the dere	ogation according to o	hante	er	Yes		No	
2.2.1.2 of the QM system of AGQM with	low production.	•		162	Ш	INO	Ш
Due to the derogation, the sampler took batch produced in the last three months sampled remains in the company as reta	(a third sample of the			Yes		No	
Designation of the samling point	Sampler Date		Date	of Sampling		Time	
Operational description of the batch	Responsible person in the company						
Further Information	1						
			□ B100				
		□В	lend c	ompon	ent for	diesel fue	el
		□В	lend c	ompon	ent for	biodiesel	
Feedstock							
The sampling point is the one reported to AGQM.				Yes		No ¹	
The condition of the sampling point is suitable for carrying out the				Yes		No ¹	
sampling (free from contamination and adhering water, correct operability, safety at work).				Retai	n samp	ole	
The samples for operational quality assurance are also taken at this point.			S	Yes		No ¹	
Retain sample was given to the company.				Yes		No ¹	
The plant or analysis certificate of the tested batch is attached.				Yes		No ³	
Please briefly explain below. ² Volume pe	er retain sample mind. 1	I					
Will be handed in within 5 working days Other comments / specifics:							
The sampling was carried out in the circumstances relevant to sampling (in	-	•					
Signature Sampler	Signature of	the re	prese	ntativ	e of the	e compai	ny

