

Technical Regulations TR EEU 045/2017

In accordance with Article 52 of the Treaty on the Eurasian Economic Union dated 29 May 2014 and Paragraph 29 of Annex No. 1 to the Rules of Procedure of the Eurasian Economic Commission, approved by Decision No. 98 of the Supreme Eurasian Economic Council dated 23 December 2014, the Council of the Eurasian Economic Commission **decided:**

1. To adopt the attached Technical Regulation of the Eurasian Economic Union "On the Safety of Crude Oil Prepared for Transportation and/or Use" (TR EAEU 045/2017).
2. To establish that the Technical Regulation of the Eurasian Economic Union "On the Safety of Crude Oil Prepared for Transportation and/or Use" (TR EAEU 045/2017) shall enter into force on 1 July 2019.
3. This Decision shall enter into force upon the expiry of 30 calendar days from the date of its official publication.

Members of the Council of the Eurasian Economic Commission:

From the Republic of Armenia	From the Republic of Belarus	From the Republic of Kazakhstan	From the Kyrgyz Republic	From the Russian Federation
V. Gabrielyan	V. Matyushevsky	A. Mamin	T. Abdygulov	I. Shuvalov

ADOPTED

**by Decision of the Council of the Eurasian
Economic Commission
dated 20 December 2017 No. 89**

TECHNICAL REGULATION of the Eurasian Economic Union "On the Safety of Crude Oil Prepared for Transportation and/or Use" (TR EAEU 045/2017)

I. Scope of Application

1. This Technical Regulation has been developed in accordance with Article 52 of the Treaty on the Eurasian Economic Union dated 29 May 2014 and establishes mandatory safety requirements for crude oil applicable and enforceable in the customs territory of the Eurasian Economic Union (hereinafter referred to as the Union), in order to protect human life and/or health, property, and the environment, prevent actions misleading consumers, and ensure energy efficiency and resource conservation.
2. The object of technical regulation of this Technical Regulation is crude oil prepared for transportation and/or use, placed on the market and in circulation on the Union market.
3. This Technical Regulation shall not apply to crude oil supplied for export outside the customs territory of the Union, supplied under the state defence order, stored by organisations ensuring the preservation of the state material reserve, or used by the crude oil producer exclusively for its own needs.

II. Basic Concepts

4. For the purposes of applying this Technical Regulation, the following concepts are used:

"crude oil safety" means the condition of crude oil in which there are no unacceptable risks associated with the possibility of causing harm and/or damage;

"placing of crude oil on the market" means the initial transfer of crude oil from the crude oil producer to the seller and/or consumer (including shipment from the crude oil producer's warehouse or shipment without storage) or the importation of crude oil for the purpose of distribution in the customs territory of the Union in the course of commercial activities, whether free of charge or for consideration;

"crude oil producer" means a legal entity, including a foreign entity, carrying out the extraction or extraction and sale of crude oil in its own name and responsible for its compliance with the requirements of this Technical Regulation and other Technical Regulations of the Union applicable to it;

"crude oil" means a liquid natural fossil mixture of hydrocarbons with a broad physicochemical composition, prepared for transportation by main pipeline, rail, road and water transport and/or for use as raw material in oil refining and petrochemical production;

"circulation of crude oil on the market" means the movement of crude oil from the crude oil producer to the consumer;

"batch of crude oil" means the quantity of crude oil accompanied by one quantity document (route order, or crude oil acceptance and delivery certificate, or shipping waybill, or bill of lading) and one passport;

"passport", "crude oil passport" means a document containing information on crude oil placed on the market and in circulation and establishing the conformity of the actual values of crude oil parameters obtained through testing crude oil samples with the requirements of this Technical Regulation;

"consumer" means a legal entity or an individual registered as an individual entrepreneur intending to order or purchase, or ordering, purchasing or using crude oil;

"seller (including importer)" means a legal entity or an individual registered as an individual entrepreneur that is a resident of a Member State of the Union, sells crude oil to the consumer in accordance with the legislation of a Member State of the Union, and is responsible for placing crude oil on the Union market and its compliance with the requirements of this Technical Regulation and other Technical Regulations of the Union applicable to it;

"person authorised by the crude oil producer" means a legal entity or an individual registered as an individual entrepreneur in accordance with the legislation of a Member State of the Union in its territory, which, on the basis of an agreement with the crude oil producer, including a foreign crude oil producer, performs actions on behalf of that crude oil producer during conformity assessment and the placing of crude oil on the Union market, and is also responsible for the conformity of crude oil with the requirements of this Technical Regulation and other Technical Regulations of the Union applicable to it.

Note. Paragraph 4 as amended by Decision No. 89 of the Council of the Eurasian Economic Commission dated 29.08.2023 (shall enter into force upon the expiry of 30 calendar days from the date of its official publication).

III. Rules for the Circulation of Crude Oil on the Union Market

5. Crude oil placed on the market and in circulation on the Union market shall comply with the requirements of this Technical Regulation and the requirements of other Technical Regulations of the Union applicable to it.

6. Each batch of crude oil placed on the market and in circulation on the Union market shall be accompanied by a passport containing the following information:

a) the name and location (address) of the legal entity, or the surname, first name and patronymic (if any) and place of residence of the individual registered as an individual entrepreneur, who is the crude oil producer or seller (including importer), or the person authorised by the crude oil producer, or the transport organisation that issued the passport;

b) the trademark of the crude oil producer (if any);

c) the designation and name of the document in accordance with which the crude oil was manufactured (produced) and/or is transported (if any), and its name and designation in accordance with that document;

d) the specified values of crude oil parameters established in the requirements for crude oil parameters according to Annex No. 1, as well as the actual results of laboratory testing, indicating the name of the in-house testing laboratory (of the crude oil producer or transport organisation) or the accredited testing laboratory included in the EAEU Unified Register of Conformity Assessment Bodies (hereinafter referred to as the Unified Register). The crude oil passport may additionally specify, in addition to the requirements set out in Annex No. 1 to this Technical Regulation, the values of crude oil parameters established in the document in accordance with which the crude oil was manufactured (produced) and/or is transported (if any);

e) the batch number;

f) the single mark of product circulation on the Union market;

g) the number and date of issue of the passport;

h) the surname, initials and signature of the person who issued the passport.

i) the surname, initials and signature of the person who received the passport (when receiving crude oil from the consignor for transportation by main pipeline and delivering crude oil to the consignee upon completion of transportation by main pipeline).

Note. Paragraph 6 as amended by Decision No. 89 of the Council of the Eurasian Economic Commission dated 29.08.2023 (shall enter into force upon the expiry of 30 calendar days from the date of its official publication).

6¹. The crude oil passport shall be drawn up in the form and in accordance with the rules set out in Annex No. 2.

Note. The Technical Regulation was supplemented with Paragraph 6¹ pursuant to Decision No. 89 of the Council of the Eurasian Economic Commission dated 29.08.2023 (shall enter into force upon the expiry of 30 calendar days from the date of its official publication).

7. The passport shall be drawn up in Russian and, where the legislation of a Member State of the Union establishes relevant requirements, in the state language (state languages) of the Member State of the Union in whose territory the crude oil is sold.

8. When selling crude oil, the seller (including importer) shall, at the consumer's request, provide a copy of the passport.

9. The passport shall be issued when crude oil is accepted (delivered) for the purposes of transportation, storage, processing and sale.

IV. Crude Oil Safety Requirements

10. Crude oil placed on the market and in circulation on the Union market shall comply with the requirements for the parameters specified in Annex

No. 1 to this Technical Regulation.

Note. Paragraph 10 as amended by Decision No. 89 of the Council of the Eurasian Economic Commission dated 29.08.2023 (shall enter into force upon the expiry of 30 calendar days from the date of its official publication).

11. The use of chemical reagents containing organochlorine compounds shall not be permitted during the manufacture (production) and transportation of crude oil.

V. Ensuring the Conformity of Crude Oil with Safety Requirements

12. Crude oil safety shall be ensured by complying with the requirements established by this Technical Regulation and the requirements of other Technical Regulations of the Union applicable to it.

13. The test methods and testing frequency applied during conformity assessment of crude oil against the requirements of this Technical Regulation shall be established in the standards included in the list of international and regional (interstate) standards, or, in their absence, national (state) standards containing rules and methods for examinations (tests) and measurements, including sampling rules, required for applying and complying with the requirements of this Technical Regulation and carrying out conformity assessment of objects of technical regulation.

Note. Paragraph 13 as amended by Decision No. 89 of the Council of the Eurasian Economic Commission dated 29.08.2023 (shall enter into force upon the expiry of 30 calendar days from the date of its official publication).

VI. Conformity Assessment of Crude Oil

14. Before crude oil is placed on the market of the Union, as well as crude oil circulating on the market of the Union, it is subject to conformity assessment for compliance with the requirements of this Technical Regulation. The conformity assessment is carried out in the form of testing with the preparation of a passport.

Note. Paragraph 14 was amended by Decision No. 89 of the Council of the Eurasian Economic Commission dated 29.08.2023 (enters into force upon the expiry of 30 calendar days from the date of its official publication).

15. Conformity assessment of crude oil for compliance with the requirements of this

Technical Regulation is carried out by an applicant (a legal entity or an individual registered as an individual entrepreneur), registered in the territory of a Member State of the Union in accordance with its legislation, who is the crude oil producer or seller (including importer), or the person authorised by the crude oil producer, or a transport organisation, using measuring instruments that meet the requirements established by the legislation of the Member States of the Union in the field of ensuring the uniformity of measurements.

Note. Paragraph 15 was amended by Decision No. 89 of the Council of the Eurasian Economic Commission dated 29.08.2023 (enters into force upon the expiry of 30 calendar days from the date of its official publication).

16. The testing procedure includes:

a) sampling of crude oil;

b) testing of crude oil samples by an in-house testing laboratory (of the crude oil producer or transport organisation) or an accredited testing laboratory included in the Unified Register;

c) entering the test results and the conformity conclusion of crude oil with the requirements of this Technical Regulation into the passport.

Note. Paragraph 16 was amended by Decision No. 89 of the Council of the Eurasian Economic Commission dated 29.08.2023 (enters into force upon the expiry of 30 calendar days from the date of its official publication).

17. Testing, including determination of its frequency, is carried out in accordance with the standards specified in paragraph 13 of this Technical Regulation.

Note. Paragraph 17 was amended by Decision No. 89 of the Council of the Eurasian Economic Commission dated 29.08.2023 (enters into force upon the expiry of 30 calendar days from the date of its official publication).

VII. Marking of Crude Oil with the Single Mark of Product Circulation on the Market of the Union

18. Crude oil that complies with the requirements of this Technical Regulation and the requirements of other Technical Regulations of the Union applicable to it, and that has undergone the conformity assessment procedure in accordance with Section VI of this Technical Regulation, shall bear the single mark of product circulation on the market of the Union.

19. The single mark of product circulation on the market of the Union is affixed before crude oil is placed on the market of the Union.

20. The single mark of product circulation on the market of the Union is affixed to the passport.

APPENDIX No. 1
to the Technical Regulation
of the Eurasian Economic
Union "On the Safety of Crude Oil,
Prepared for

Transportation and/or
Use"
(TR EEU 045/2017)

Note. The numbering heading was amended by Decision No. 89 of the Council of the Eurasian Economic Commission dated 29.08.2023 (enters into force upon the expiry of 30 calendar days from the date of its official publication).

REQUIREMENTS for Crude Oil Parameters

Name of parameter	Specified value of the parameter
Mass fraction of hydrogen sulfide, млн^{-1} (ppm), not more than	100 (20*)
Combined mass fraction of methyl and ethyl mercaptans, млн^{-1} (ppm), not more than	100 (40*)
Mass fraction of water, %, not more than	1 (0,5*)
Mass concentration of chloride salts, mg/dm^3 , not more than	900 (100*)
Vapour pressure, kPa (mm Hg), not more than	66,7 (500)**
Mass fraction of organic 6 chlorides in the fraction boiling up to 204 °C, млн^{-1} (ppm), not more than	6

* When crude oil is transferred for transportation by main pipeline or processing.

** Not determined at a crude oil pour point of 10 °C and above.

APPENDIX No. 2
to the Technical Regulation
of the Eurasian Economic Union
"On the Safety of Crude Oil,
Prepared for
Transportation and/or
Use"
(TR EEU 045/2017)

Note. The Technical Regulation was supplemented with Appendix 2 in accordance with Decision No. 89 of the Council of the Eurasian Economic Commission dated 29.08.2023 (enters into force upon the expiry of 30 calendar days from the date of its official publication).

Form of the Crude Oil Passport and Rules for Its Preparation

I. Passport Form

Single mark of product circulation on the market of the Eurasian Economic Union	Trademark of the crude oil producer
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Crude Oil Passport

No. _____ Date of issue 20__

1. Name and location (address) of the crude oil producer or seller (importer), or the person authorised by the crude oil producer, or the transport organisation

Place of production (preparation) of crude oil, or place where crude oil is accepted for transportation by the main pipeline, or place where crude oil is delivered to the consignee following transportation by the main pipeline, or place of transloading of crude oil to other modes of transport following transportation by the main pipeline

2. Designation and name of the document in accordance with which the crude oil was produced (prepared) and/or is transported (if available), and its name and designation in accordance with that document

3. Name of the in-house testing laboratory (of the crude oil producer or transport organisation) or accredited testing laboratory included in the EAEU Unified Register of Conformity Assessment Bodies, registration number of the accreditation certificate (record number in the register of accredited persons)

4. Batch number, date of manufacture (preparation), or date on which crude oil was delivered to the consignee following transportation by the main pipeline, or date of transloading of crude oil to other modes of transport following transportation by the main pipeline

5. Designation and name of the document in accordance with which the crude oil sample was taken

6. Name of the sampling location (facility)

7. Sampling date (dd.mm.yy), time (hh:mm)

No.	Name of parameter	Test method 1	Parameter values according to TR EEU 045/2017 ²	Actual values of the parameter
1	2	3	4	5
Parameters in accordance with TR EEU 045/2017				
1	Mass fraction of hydrogen sulfide, млн ⁻¹ (ppm)		not more than	
2	Combined mass fraction of methyl and ethyl mercaptans, млн ⁻¹ (ppm)		not more than	
3	Mass fraction of water, %		not more than	
4	Mass concentration of chloride salts, mg/dm ³		not more than	
5	Vapour pressure, kPa (mm Hg) ³		not more than	

6	Mass fraction of organic chlorides in the fraction boiling up to 204 °C, млн ⁻¹ (ppm)		not more than	
Other parameters established in the document in accordance with which the crude oil was produced and/or is transported (if available) ⁴				
7				
...				

¹ The designation and paragraph of the document containing provisions on the method (methodology) for examinations (tests) and measurements are specified.

² It is permitted to specify crude oil parameter values (in addition to the parameter values in accordance with TR EEU 045/2017) established in the document in accordance with which the crude oil was produced and/or is transported (if available).

³ Not determined at a crude oil pour point of 10 °C and above.

⁴ The testing frequency is determined on the basis of the document in accordance with which the crude oil was produced and/or is transported.

Conformity conclusion:

Passport prepared by: position, organisation	signature	Full name
Passport received by: position, organisation	signature	Full name

II. Rules for Completing the Passport

On the front side of the passport, the single mark of product circulation on the market of the Eurasian Economic Union and the trademark of the crude oil manufacturer (producer) (if any) are placed.

Item 1 shall specify the name and location (address) of the legal entity or the surname, first name and patronymic (if any) and place of residence of the individual registered as an individual entrepreneur who is the crude oil manufacturer (producer) or seller (including importer), or the person authorised by the crude oil producer, or the transport organisation that issued the passport.

The place of manufacture (preparation) of the crude oil shall be specified, or the place where the crude oil was accepted from the consignor for transportation by main pipeline (or using other types of transport—pipeline transport bypassing the main oil pipeline system, rail, road, river or sea transport), or the place where the crude oil was delivered to the consignee following transportation by main pipeline (or using other types of transport—pipeline transport bypassing the main oil pipeline system, rail, road, river or sea transport), or the place where the crude oil was transloaded following transportation by main pipeline to other types of transport.

Item 2 shall specify the designation and name of the document in accordance with which the crude oil was manufactured (produced) and/or transported (if any), as well as its name and designation in accordance with that document.

Item 3 shall specify the name of the in-house testing laboratory (of the manufacturer (producer) or transport organisation) or the accredited testing laboratory included in the EAEU Unified Register of Conformity Assessment Bodies that performed testing of the crude oil on the basis of which the passport was completed, and the entry number in the register of accredited persons.

Item 4 shall specify the batch number in accordance with the number of the route order (or the crude oil acceptance and delivery certificate, shipping waybill or bill of lading) and the date of its manufacture (preparation), or the date on which the crude oil was accepted from the consignor for transportation by main oil pipeline (or using other types of transport—pipeline transport bypassing the main oil pipeline system, rail, road, river or sea transport), or the date on which the crude oil was delivered to the consignee following transportation by main pipeline (or using other types of transport—pipeline transport bypassing the main oil pipeline system, rail, road, river or sea transport), or the date on which the crude oil was transloaded to other types of transport following transportation by main pipeline.

Item 5 shall specify the designation and name of the document in accordance with which the crude oil sample(s) was/were taken.

Item 6 shall specify the name of the location where the crude oil sample was taken (tank, oil quantity and quality measurement system (SIKN)) or the facility at which the sample was taken (sampling point (PSP)).

Item 7 shall specify the date of sampling in accordance with the crude oil sampling certificate or the period during which the composite sample was

formed.

The table shall be completed as follows.

Column 2 shall specify the parameters established by the Technical Regulation of the Eurasian Economic Union "On the Safety of Crude Oil Prepared for Transportation and/or Use" (TR EAEU 045/2017), and the parameters from the document in accordance with which the crude oil was manufactured (produced) and/or transported (standardisation documents, contractual conditions, etc.) (if any).

Column 3 shall specify the designation and clauses of the documents in accordance with which the crude oil was tested, including standards from the list of international and regional (interstate) standards or, in their absence, national (state) standards containing rules and methods for examinations (tests) and measurements, including sampling rules, required for the application and fulfilment of the requirements of TR EAEU 045/2017 and for conformity assessment of objects of technical regulation approved by the Eurasian Economic Commission.

Column 4 shall display the specified values of crude oil parameters established in TR EAEU 045/2017. It is permitted to indicate the values of crude oil parameters established in the documents in accordance with which the crude oil was manufactured (produced) and/or transported.

Column 5 shall display the results of testing the crude oil for compliance with the requirements of TR EAEU 045/2017 and the provisions of the documents in accordance with which the crude oil was manufactured (produced) and/or transported (if any), obtained during laboratory testing of the crude oil, as well as measurement results obtained using measuring instruments, technical systems and devices with measuring functions that comply with the requirements established by the legislation on ensuring the uniformity of measurements of the Member State of the Eurasian Economic Union (hereinafter referred to as the Member State) in whose

territory they are used, and with Union law in the field of ensuring the uniformity of measurements (including readings of the oil quantity and quality measurement system (SIKN)).

The crude oil passport shall be signed by the person responsible for its completion, with the position and name of the organisation indicated.

When crude oil is transferred for transportation by main pipeline, receipt of the passport shall be certified by the signature of a representative of the organisation accepting the crude oil for transportation by main pipeline.

The "Conclusion" section shall specify a conclusion on the conformity (non-conformity) of the crude oil with the requirements of TR EAEU 045/2017.

The passport (passport copies) shall be completed and produced as follows.

The passport shall be completed on sheets of white A4 paper (210 x 297 mm).

The passport shall be drawn up in Russian using electronic printing devices and, where the legislation of the Member State contains a corresponding requirement, in the state language of the Member State in which the passport is issued.

Inclusion in the passport of information not provided for in this section, abbreviation of words (except for generally accepted designations and abbreviations), and any corrections to the text are not permitted.

Copies of issued passports shall be produced by the applicant on sheets of white A4 paper (210 x 297 mm), certified with a seal (unless otherwise established by the legislation of the Member State) and the signature of the applicant or a person of the applicant organisation authorised in accordance with the legislation of the Member State (with the name and details of the authorising document indicated).

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