

3522-0000025 OM
Operational Manual

Q-ty of sheets

9

Sheet

1

GROUND: VK OP 3500-620-12-11, VK OP 3500-620-12-07, VK OP 3500-620-12-15, PK 3500-710-27

Bulletin Y4R 2026- 11	TRACTOR MODEL	3522 with Weichai engine
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Abstract

This operational bulletin provides the following information:

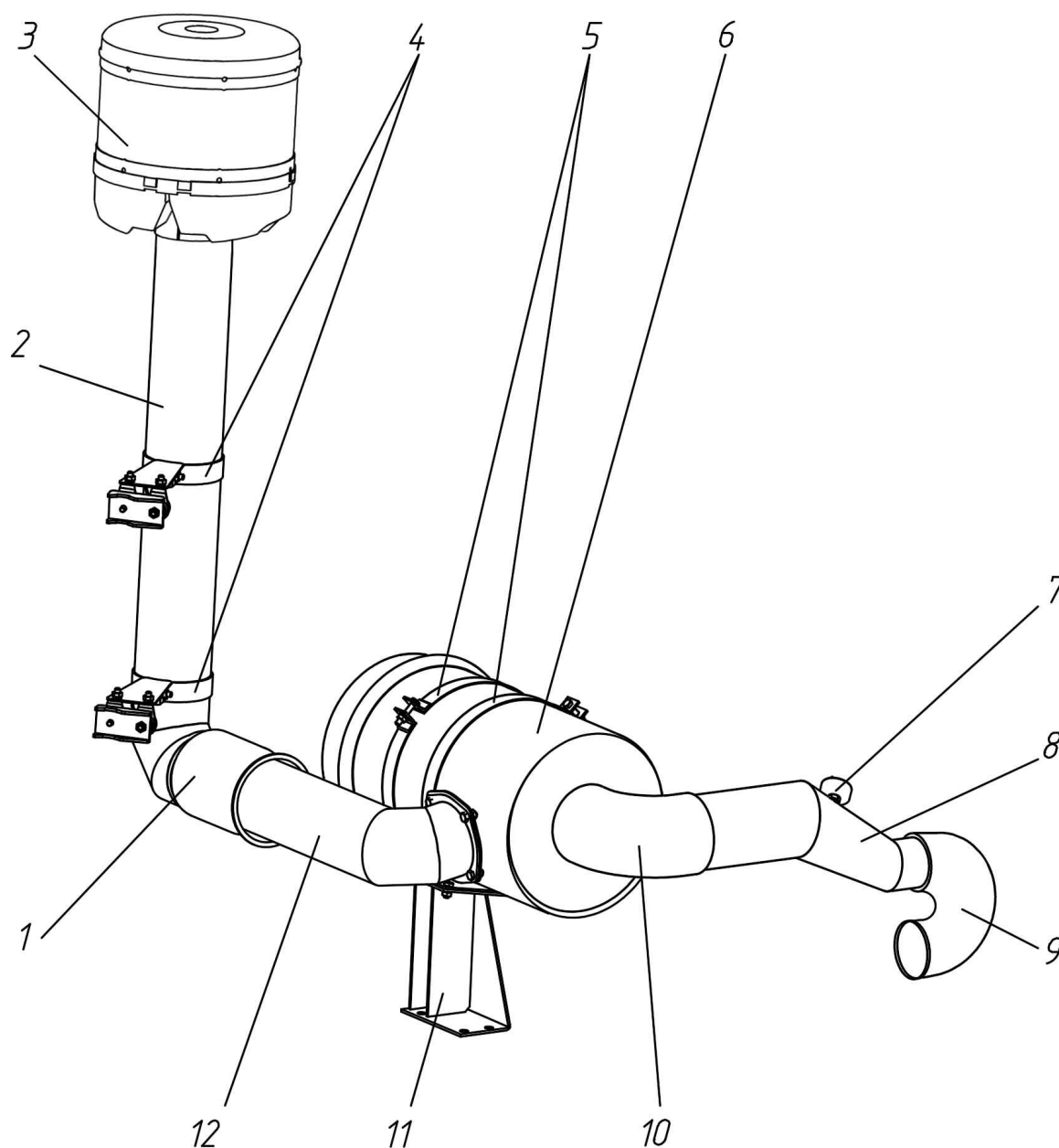
- air cleaning system options in configuration with "KLQ-767" and "REMIZ FVR" air cleaners, along with the existing "REMIZ" air cleaner have been added;
- the inertial pre-cleaner has been replaced by a multicyclone pre-cleaner;
- the procedure for maintenance operations of the air cleaning system has been refined;
- the procedure for maintenance operations of pre-cleaner has been added.

Content of changes

Subsection 3.1.2 "Engine air cleaning system" shall be restated in a new version.

3.1.2 Engine air cleaning system

The assembly of elements of the engine air cleaning system, with air cleaner and pre-cleaner is shown in Figure 3.1.1.



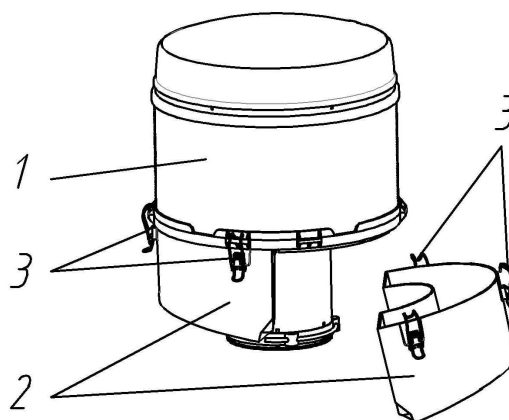
1 - branch pipe; 2 - air duct; 3 - air pre-cleaner (pre-cleaner); with a multicyclone unit; 4 - brackets; 5 - air cleaner mounting clamps 6 - air cleaner; 7 - filter clogging sensor; 8 - air duct; 9 - branch pipe; 10 - branch pipe; 11 - bracket for installing the air cleaner; 12 - air duct

Figure 3.1.1 – Engine air cleaning system

This system includes:

- a pre-cleaner with multicyclone unit 3, which helps to increase the operation time of the main filter cartridge and improves the efficiency of air purification, removing up to 99% (depending on operating conditions) of dust and other pollutants from the air before it enters the air cleaner 6.

The pre-cleaner 3 is shown in Figure 3.1.2.



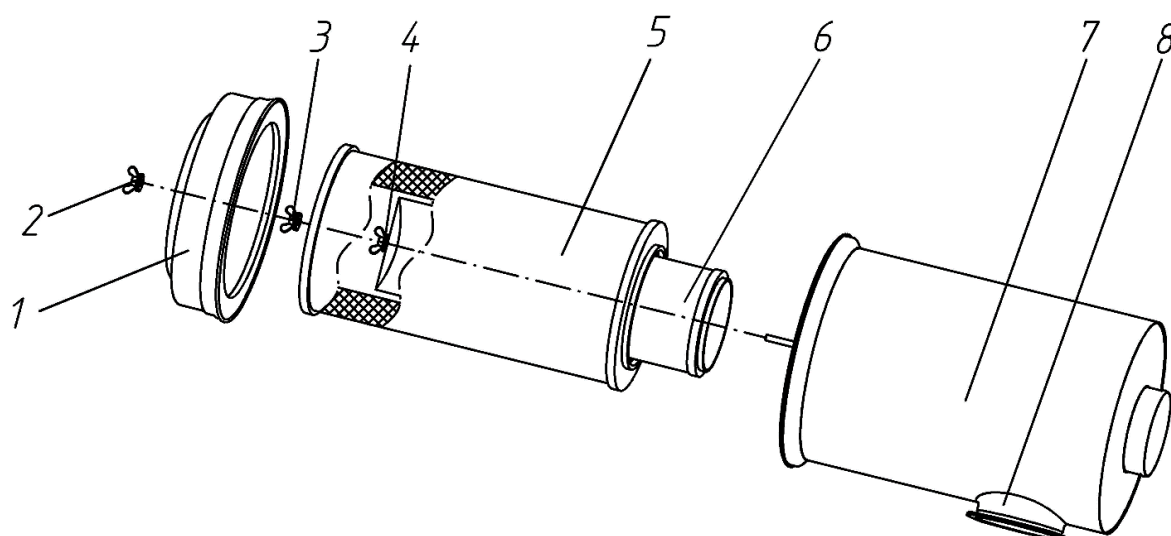
1 – pre-cleaner housing; 2 – dust collection cups; 3 – dust collection cups mounting clips

Figure 3.1.2 – Pre-cleaner

- air supply duct, consisting of branch pipes 1, 9, 10 and air ducts 2, 8, 12, connecting the pre-cleaner 3, the air cleaner 5 and the engine turbocharger;

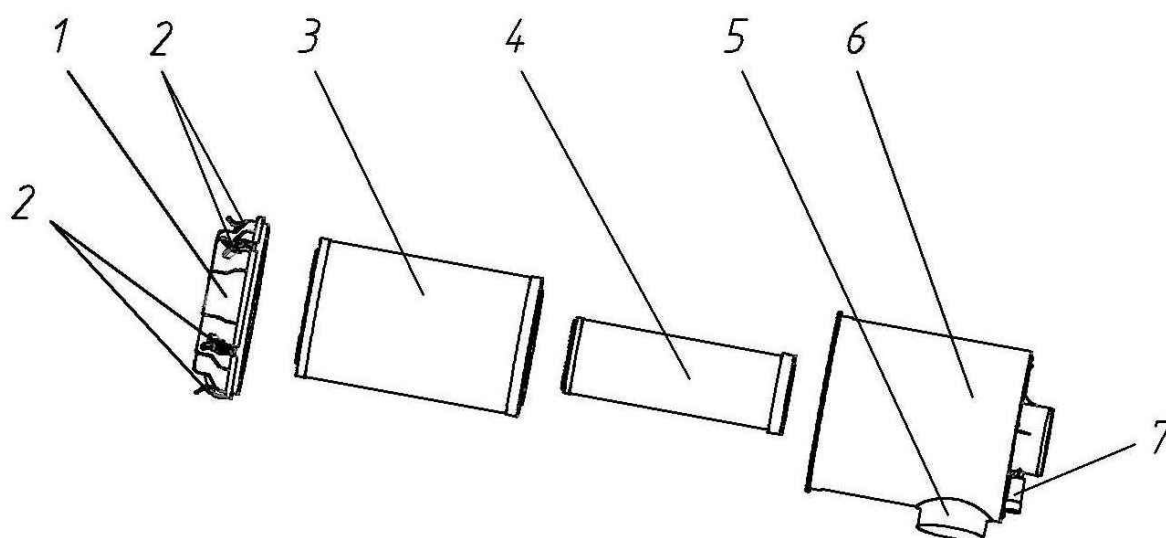
- air cleaner clogging sensor 7, designed to indicate clogging of the air cleaner 6. The electric air cleaner clogging sensor 7 is installed in air duct 8, which connects the air cleaner 6 to the turbocharger, and activates when the vacuum reaches the maximum permissible value due to filter element contamination. In this case, the air cleaner 6 filter clogging indicator lights up on the instrument panel.

- air cleaner 6 with two filter cartridges (main and safety). Versions of the air cleaner 6 are shown in Figures 3.1.2a and 3.1.2b



1 – air cleaner cover; 2 – air cleaner cover nut; 3 – main filter cartridge nut; 4 – safety filter cartridge nut; 5 – main filter cartridge; 6 – safety filter cartridge; 7 – air cleaner housing; 8 – air intake

Figure 3.1.2a – Air cleaner "Remiz"



1 – air cleaner cover; 2 – air cleaner cover mounting clips; 3 – main filter cartridge; 4 – safety filter cartridge; 5 – air intake; 6 – air cleaner housing 7 – additional air cleaner clogging sensor (only for "KLQ-767" air cleaner)

Figure 3.1.2b – Air cleaner "KLQ-767" or "REMIZ FVR"

The "REMIZ", "REMIZ FVR", and "KLQ-767" air cleaners are of the dry type, using replaceable paper filter cartridges. Air cleaning is performed by the main filter cartridge. The safety filter cartridge is designed to prevent dust from entering the engine air cleaning system in case of a main filter cartridge rupture.

Section 6 Maintenance. Clause 6.4.4.14 "Operation 47. Changing the air cleaner filter cartridge" shall be restated in a new version.

6.4.4.14 Operation 47. Changing the engine air cleaner filter cartridge

The operation is carried out every 500 hours of operation, or after three replacements of the main filter cartridge, or once a year, whichever comes first.

To replace the safety filter cartridge (SFC) of air cleaner "REMIZ", do the following:

- remove the main filter cartridge (MFC) 5 (Figure 6.4.48) as described in operation 66 "Changing the main filter cartridge of the engine air cleaner";
- unscrew nut 4 and remove the SFC 6 from the air cleaner housing 7;
- clean the internal and sealing surfaces of the air cleaner housing 7 with a damp cloth from dust and dirt, taking care to ensure that dust and dirt do not enter the air supply tract;
- check the condition of the seals and filter cartridge mounting locations;
- install the new SFC 6, tighten nut 4, and then install the new MFC 5 into the air cleaner housing. Make sure that the filter cartridges are installed correctly;
- install cover 1 in place, while the cover should be installed easily, and tighten nut 2;
- install the facing in place.

The tightening torque for nuts 2, 3, and 4 must be from 8 to 10 N • m.

To replace the safety filter cartridge (SFC) of air cleaner "KLQ-767" или "REMIZ FVR", do the following:

- remove MFC 3 (Figure 6.4.48a), as described in operation 66 "Changing the main filter cartridge of the engine air cleaner";
- remove SFC 4 from the air cleaner housing 6;
- clean the internal and sealing surfaces of the air cleaner housing with a damp cloth from dust and dirt, taking care to ensure that dust and dirt do not enter the air supply tract;
- check the condition of the seals and filter cartridge mounting locations;
- install the new SFC 4, and then install the new MFC 3 into the air cleaner housing 6.

Make sure that the filter cartridges are installed correctly;

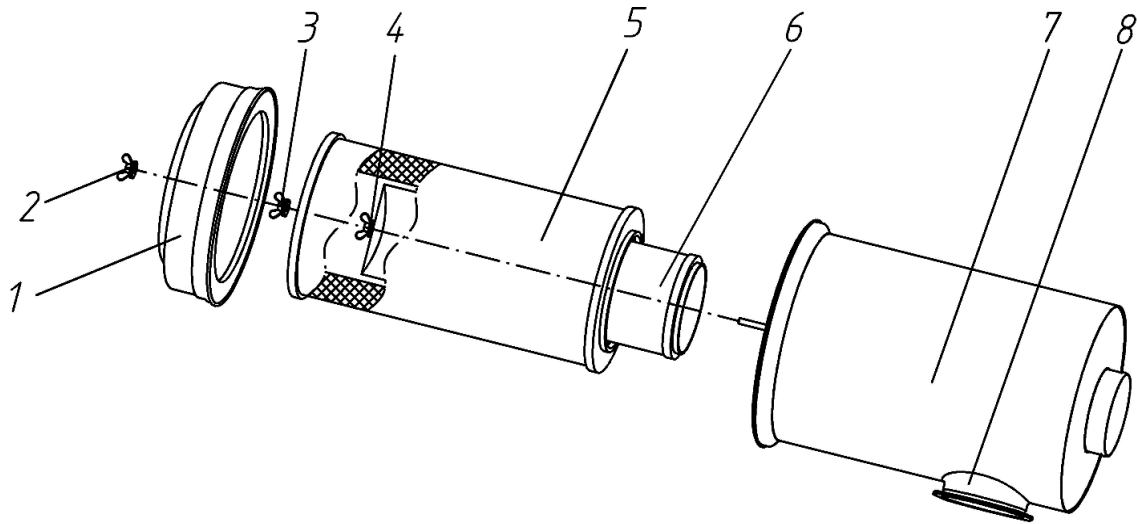
- install cover 1 in place, while the cover should be installed easily, and close the latches 2;
- install the facing in place.

Section 6 Maintenance. Clause 6.4.8.3 "Operation 66. Changing the main filter cartridge of the engine air cleaner " shall be restated in a new version.

6.4.8.3 Operation 66. Changing the main filter cartridge of the engine air cleaner

The operation is carried out when the air cleaner filter clogging indicator on the instrument panel lights up, or every 250 hours of operation, or once a year, whichever comes first.

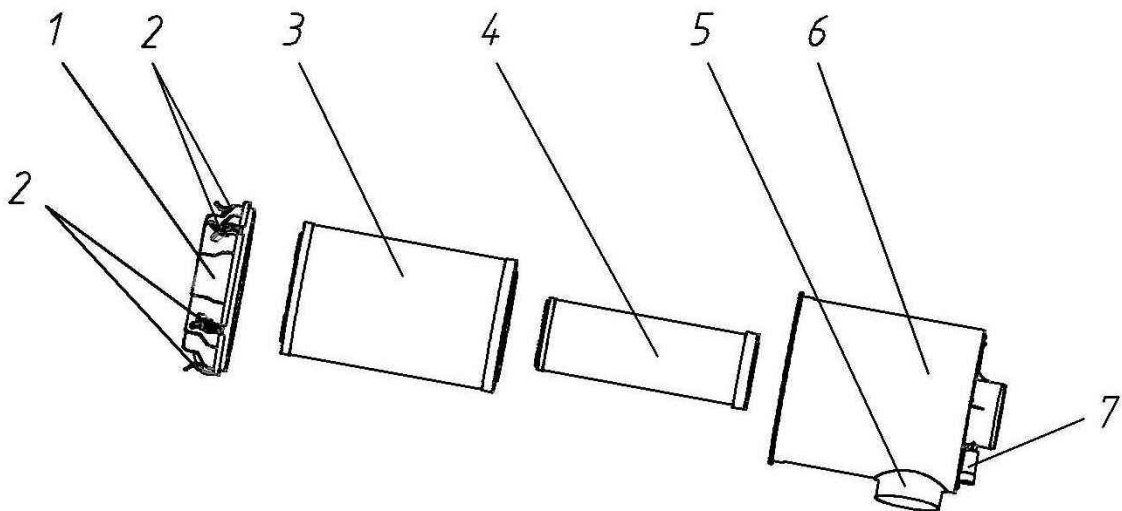
The "REMIZ" air cleaner is shown in Figure 6.4.48.



1 – air cleaner cover; 2 – air cleaner cover nut; 3 – main filter element nut; 4 – safety filter cartridge nut; 5 – main filter element; 6 – SFC; 7 – air cleaner housing; 8 – air intake

Figure 6.4.48 – Changing of the MFC in the "REMIZ" air cleaner

The "KLQ-767" and "REMIZ FVR" air cleaners are shown in Figure 6.4.48a.



1 – air cleaner cover; 2 – air cleaner cover mounting clips; 3 – main filter cartridge; 4 – safety filter cartridge; 5 – air intake; 6 – air cleaner housing 7 – additional air cleaner clogging sensor [only for "KLQ-767" air cleaner]

Figure 6.4.48a – Changing of the MFC in the «KLQ-767» or "REMIZ FVR" air cleaners

To replace the MFC of the "REMIZ" air cleaner, do the following:

- remove the left side panel of the trim;
 - unscrew the nut of the air cleaner cover 2 and remove the cover 1 (Figure 6.4.48);
 - unscrew the nut of the main filter cartridge 3 and remove the main filter cartridge (MFC) 5 from the air cleaner housing 7;
 - check the SFC 6 for traces of dust without removing it from the housing. If there are traces of dust on the SFC 6, it is necessary to replace the MFC 5 and SFC 6 (for changing the SFC, see Operation 47);
 - clean the internal and sealing surfaces of the air cleaner housing 7 with a damp cloth from dust and dirt, taking care to ensure that dust and dirt do not enter the air supply tract.
 - check the condition of the seals and filter cartridge mounting locations;
 - install the new MFC 5 into the air cleaner housing 7, make sure that the MFC is installed correctly, tighten the nut 3;
 - install cover 1 in place, the cover should be installed freely and fit tightly to the air cleaner housing ,tighten nut 2.
 - install the left side panel of the trim in place.
- The tightening torque for nuts 2, 3, and 4 must be from 8 to 10 N·m.

To replace the MFC of the "KLQ-767" or "REMIZ FVR" air cleaner, do the following:

- remove the left side panel of the trim;
- release the air cleaner cover mounting clips 2 (Figure 6.4.48a) and remove cover 1;
- remove MFC 3 from the air cleaner housing 6;
- check the SFC 4 for traces of dust without removing it from the housing. If there are traces of dust on the SFC 4, it is necessary to replace the MFC 3 and SFC 4 (for changing the SFC, see Operation 47);
- clean the internal and sealing surfaces of the air cleaner housing 7 with a damp cloth from dust and dirt, taking care to ensure that dust and dirt do not enter the air supply tract.
- check the condition of the seals and filter cartridge mounting locations;
- install the new MFC 3 into the air cleaner housing 6, make sure that the MFC 3 is installed correctly;
- install cover 1 in place, the cover should be installed freely and fit tightly to the air cleaner housing 6, make sure that clips 2 are fully latched;
- install the left side panel of the trim in place.

ATTENTION: DAMAGE TO THE MFC AND SFC IS NOT ALLOWED (PAPER CURTAIN TEAR, SEPARATION, DELAMINATION OF SEALS)!

ATTENTION: AFTER ASSEMBLING THE AIR CLEANER, IT IS NECESSARY TO CHECK THE TIGHTNESS OF ALL CONNECTIONS OF THE INTAKE DUCT AND THE AIR CLEANER, AS SPECIFIED IN OPERATION 44!

ATTENTION: FOR AIR CLEANER MAINTENANCE, USE ONLY NEW AND ORIGINAL FILTER CARTRIDGES! THE TRACTOR MANUFACTURER DOES NOT PROVIDE WARRANTY COVERAGE FOR AN ENGINE THAT HAS FAILED DUE TO THE USE OF FILTER CARTRIDGES THAT HAVE BEEN BLOWN OUT OR CLEANED IN ANY MANNER! BLOWING OUT FILTER CARTRIDGES OR CLEANING THEM IN ANY MANNER IS NOT ALLOWED!

ATTENTION: IT IS PROHIBITED TO USE A TRACTOR WITH A NON-SEALED INTAKE DUCT, AS WELL AS WITHOUT A MFC AND SFC!

The designations of the filter cartridges used for the "REMIZ", "REMIZ FVR", and "KLQ-767" air cleaners are given in Table 6.4.8.1.

Table 6.4.8.1

Model of air cleaner	Air cleaner designation	MFC designation	SFC designation	Manufacturer of air cleaner
8421-1109010-31A	REMIZ	P.387632.003MT	P.387632.003MT-П	OJSC "REMIZ", Republic of Belarus, Zhodino
FVR 1109010.10	REMIZ FVR	Donaldson P777868	Donaldson P777869	
1021866382 (WP-KLQ) KLQ-767A-0000 KLQ-767-0000 KLQ-767D-0000	KLQ-767	1021866422	1021866386	Pngyuan Filter Co., Ltd, China

ATTENTION: THE FILTER CARTRIDGES OF THE "REMIZ", "REMIZ FVR", AND "KLQ-767" AIR CLEANERS ARE NOT INTERCHANGEABLE WITH EACH OTHER!

Section 6 Maintenance. Add operation 7a to Table 6.3.1 of clause 6.3 "Maintenance procedure"..

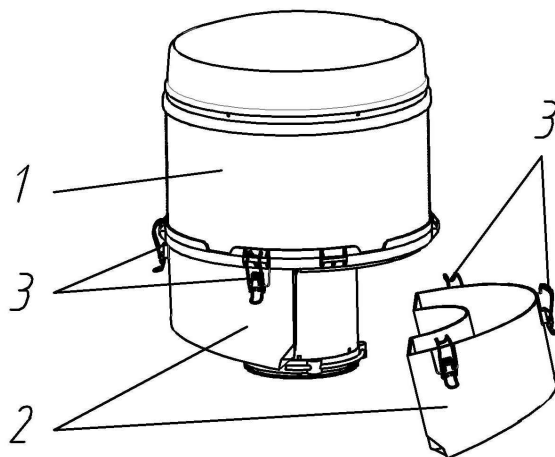
Table 6.3.1

Operation No.	Operation name	Pereodicity, H				
		8-10	125	250	500	1000
7a	Check pre-cleaner dust collection cap, if they are filled with dust and/or water, clean them	X				

Section 6 Maintenance. Add operation 7a to clause 6.4.1.8 of subsection 6.4.1 "Shift-time maintenance (STM) every 8-10 hours of operation or every shift".

Operation 7a. Checking and cleaning of the pre-cleaner dust collection caps

The operation is performed every 8-10 hours of tractor operation, or earlier if the dust collection cups are filled with dust and/or water. The dust collection cups 2 (Figure 6.4.4a) are made of transparent material, so the degree of their filling with dust and/or water should be determined visually.



1 – pre-cleaner housing; 2 – dust collection cups; 3 – dust collection caps mounting clips

Figure 6.4.4a – Pre-cleaner

To clean the precleaner dust collection cups 2, do the following:

- release the clips 3;
- disconnect the dust collection cups 2 from the pre-cleaner housing 1;
- clean the dust collection cups from dust and/or water, clean the internal and sealing surfaces of the dust collection cups 2 with a damp cloth to remove dust and dirt; in case of heavy contamination, wash the dust collection cups with water and wipe dry with a rag.

ATTENTION: WHEN WASHING THE TRACTOR, DO NOT ALLOW WATER TO ENTER THE PRE-CLEANER DUST COLLECTION CUPS AND THE ENGINE INTAKE DUCT THROUGH THE PRE-CLEANER!