

ACADEMY KDW 1003

NAME	SURNAME	COMPANY

FILLING IN THE ASSESSMENT QUESTIONNAIRE

The purpose of this document is to assist in the level of knowledge reached by those who participate to a training course and the effectiveness of the course itself.

You are requested to take the written test and select one answer which you believe is the correct and complete answer.

The results or the grade of the answers you have given will enable the assessment of the general training received by the participants and will help with identification of topics which we need participants to focus their attention on to become proficient in knowledge in the diagnostics of a problem and how to carry out the correct repair of an engine.

The level is graded with a mark that enables the assessment of the general training received by participants and the identification of topics on which we need participants to focus their attention:

- any **mark above 20/22** is to be considered **very good**
(The Dealer is automatically added to the KOHLER Dealer Locator and gets enrollment priority in the next trainings)
- any **mark between 17/22 and 19/22** is to be considered **good**
(The Dealer is automatically added to the KOHLER Dealer Locator)
- any **mark between 14/22 and 16/22** is to be considered **sufficient**
(The Service Area Manager will evaluate the activity of the Dealer and the subsequent inclusion on the KOHLER Dealer Locator)
- a **mark below 14/22** is to be considered **not sufficient**
(The Dealer must repeat the training as soon as the next session is available)

Any discrepancies that could arise in the question and answers given must be discussed with the Area Manager.

1. What does it the total displacement for a KDW 1003 in CC?
 - a) About 1300 CC
 - b) About 1000 CC
 - c) About 900 CC

2. What kind of injection system dose the KDW 1003?
 - a) Direct injection system on piston head
 - b) Indirect Injection system with pre-combustion chamber
 - c) Direct injection system on piston combustion chamber

3. What kind of injection pump have the KDW 1003?
 - a) Injection Pump and injectors in one body for each cylinder
 - b) Injection Pump and injector are 2 separate unit
 - c) Injection Pump and injectors for all cylinders

4. What is the opening pressure of the nozzle?
 - a) 140/150 Bar
 - b) 200/220 Bar
 - c) 120/130 Bar

5. How often should the valve clearance be checked and adjusted ?
 - a) 800H
 - b) 500H
 - c) 300H

6. When should the fuel balancing need to be checked?
 - a) When 1 or more Injection pumps are replaced
 - b) Only when engine is overhauled
 - c) When there is a sticking nozzle

7. As per Kohler Technical Indication what is the cylinder number 1?
 - a) The first on timing belt side
 - b) The first on fly wheel side
 - c) There are no technical indication about

8. When should the static advance in the low pressure side need to be checked ?
 - a) After replacing the nozzle
 - b) After replacing a complete injection pump
 - c) After replacing the no return valve on

9. If the none return valve (check valve) on the injection pump is sticking open, what could effect on engine?
 - a) Lack of power
 - b) RPM hunting
 - c) Difficult in shout down

10. If the oil pressure lamp stays on after engine starts, what could be the cause?
- a) Oil level at minimum on deep stick
 - b) Sticking oil pressure regulator valve on oil pump
 - c) High oil level on deep stick
11. Can the none return valve (check valve) on the injection pump be replaced?
- a) Yes
 - b) No
 - c) It can be repaired
12. What part of the engine is the location of the oil pressure switch ?
- a) On the cylinder head
 - b) On the rocker arm cover corner
 - c) On crank case (starter motor side)
13. How many thickness of Cylinder Head Gasket are available in case of replace?
- a) 2
 - b) 1
 - c) 3
14. What do we measure to determine the thickness of the cylinder head gasket?
- a) On the piston protrusion from crank case of cylinder 1
 - b) The average of the height of the 3 pistons protruding from the top of the crankcase surface
 - c) On the piston protrusion from crank case of cylinder 3
15. During the nozzle pressure control we put a cap instead of no return valve:
- a) To avoid nozzle damage
 - b) To maintain pressure inside the injection pump
 - c) To increase the injection pressure
16. During the static advance control in low pressure we put a special black gasket:
- a) To maintain pressure inside the injection pump
 - b) To stop injection pump leakage
 - c) In order to stop nozzle leakage
17. What is direction of engine rotation?
- a) Counter clockwise looking from fan side
 - b) Counter clockwise looking from 1° PTO side
 - c) Clockwise looking from fly wheel side
18. The crankshaft pulley bolt/screw on timing side, it is untighten by:
- a) Rotating it on clockwise
 - b) Rotating it counter clockwise
 - c) Rotating it clockwise from flywheel side

19. What can happen in cases of the governor spring getting broken?
- a) Engine stay in idle
 - b) Engines goes in over rpm
 - c) Engines would not start
20. Each time that the injection-pump is removed from cylinder head the Injector spark arrester need to:
- a) To be turned up side down
 - b) To be replaced with new one
 - c) To be re-used because it will sealed properly
21. If the engine does not start, if electrical and fuel supply circuits are checked, should I check?
- a) Check the start-up fuel supplement spring
 - b) Check the regulator spring
 - c) Both
22. With the ignition in the on position, the alternator warning light does not come on, what to check?
- a) Alternator W contact
 - b) Alternator D+ contact
 - c) Alternator B+ contact
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Date : __/__/____

SCORE

Manager signature:

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