

Instruction Sheet for the Candidate

Qualification	Agricultural Machinery Technician (Level-04)
Competency Standard	Maintain Lubrication System
Purpose of Assessment	Formative Assessment
Candidate Details	Name_____
	Registration/Roll Number_____
Guidance for Candidate	<p>To meet this standard, you are required to complete the following within 03 Hrs. time frame (for practical demonstration & assessment):</p> <ul style="list-style-type: none"> • Replace the engine oil • Replace the oil pump • Replace the oil balancer
Time: 03 Hrs.	During a practical assessment, under observation by an assessor, you are required to
Minimum Evidence Required	<p>Replace the engine oil</p> <ol style="list-style-type: none"> 1. Warm the engine to ambient temperature 2. Select the proper tools for opening the Filter 3. Remove the drain plug 4. Remove the Oil filter 5. Install new oil filter 6. Place the drain Plug 7. Top up the Oil level <p>Replace the oil pump</p> <ol style="list-style-type: none"> 1. Drain the oil by opening the drain plug 2. Remove the engine sump 3. Remove the timing cover of engine 4. Remove the oil pipes of oil pump 5. Remove the idler gear of oil pump 6. Remove the oil pump 7. Install new oil pump 8. Assemble the engine cover and sump 9. Top up the engine oil level <p>Replace the oil balancer</p> <ol style="list-style-type: none"> 1. Remove the Engine sump 2. Remove the balancer unit 3. Remove the idler gear 4. Remove the oil pump drive shaft 5. Remove the oil pump mounting bolts 6. Install the oil pump 7. Assemble the balancer unit 8. P8.Assemble the Engine sump

Self-Assessment Checklist

Candidate Name	
Registration No.	
Qualification	Agricultural Machinery Technician (Level-04)
Competency Standard	Maintain Lubrication System
Purpose of Assessment	Formative Assessment
Assessment Task	<ul style="list-style-type: none"> • Replace the engine oil • Replace the oil pump • Replace the oil balancer

I can.....

Performance Criteria	Yes	No
1. Warm the engine to ambient temperature	<input type="checkbox"/>	<input type="checkbox"/>
2. Select the proper tools for opening the Filter	<input type="checkbox"/>	<input type="checkbox"/>
3. Remove the drain plug	<input type="checkbox"/>	<input type="checkbox"/>
4. Remove the Oil filter	<input type="checkbox"/>	<input type="checkbox"/>
5. Install new oil filter	<input type="checkbox"/>	<input type="checkbox"/>
6. Place the drain Plug	<input type="checkbox"/>	<input type="checkbox"/>
7. Top up the Oil level	<input type="checkbox"/>	<input type="checkbox"/>
8. Drain the oil by opening the drain plug	<input type="checkbox"/>	<input type="checkbox"/>
9. Remove the engine sump	<input type="checkbox"/>	<input type="checkbox"/>
10. Remove the timing cover of engine	<input type="checkbox"/>	<input type="checkbox"/>
11. Remove the oil pipes of oil pump	<input type="checkbox"/>	<input type="checkbox"/>
12. Remove the idler gear of oil pump	<input type="checkbox"/>	<input type="checkbox"/>
13. Remove the oil pump	<input type="checkbox"/>	<input type="checkbox"/>
14. Install new oil pump	<input type="checkbox"/>	<input type="checkbox"/>

15. Assemble the engine cover and sump	<input type="checkbox"/>	<input type="checkbox"/>
16. Top up the engine oil level	<input type="checkbox"/>	<input type="checkbox"/>
17. Remove the Engine sump	<input type="checkbox"/>	<input type="checkbox"/>
18. Remove the balancer unit	<input type="checkbox"/>	<input type="checkbox"/>
19. Remove the idler gear	<input type="checkbox"/>	<input type="checkbox"/>
20. Remove the oil pump drive shaft	<input type="checkbox"/>	<input type="checkbox"/>
21. Remove the oil pump mounting bolts	<input type="checkbox"/>	<input type="checkbox"/>
22. Install the oil pump	<input type="checkbox"/>	<input type="checkbox"/>
23. Assemble the balancer unit	<input type="checkbox"/>	<input type="checkbox"/>
24. Assemble the Engine sump	<input type="checkbox"/>	<input type="checkbox"/>

Candidate's Signature_____ Assessor's Signature_____

Date: _____

Assessors Judgment Guide

Qualification	Agricultural Machinery Technician (Level-04)
Competency Standard	Maintain Lubrication System
Purpose of Assessment	Formative Assessment
Candidate Details	Name: _____ Registration/Roll Number: _____ Signature: _____
Assessment Outcome	COMPETENT <input type="checkbox"/> NOT YET COMPETENT <input type="checkbox"/> Name of the Assessor _____ Assessor's code: _____ Signature: _____

Assessment Summary (to be filled by the assessor)							
Activity	Method					Result	
Nature of Activity	Written	Oral	Observation	Portfolio	Role Play	Competent	Not Yet Competent
Practical Skill Demonstration			✓				
Knowledge Assessment		✓					
Other Requirement							

Observation Checklist

Assessment Task		<ul style="list-style-type: none">• Replace the engine oil• Replace the oil pump• Replace the oil balancer		
During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks
1.	Warm the engine to ambient temperature			

2.	Select the proper tools for opening the Filter			
3.	Remove the drain plug			
4.	Remove the Oil filter			
5.	Install new oil filter			
6.	Place the drain Plug			
7.	Top up the Oil level			
8.	Drain the oil by opening the drain plug			
9.	Remove the engine sump			
10.	Remove the timing cover of engine			
11.	Remove the oil pipes of oil pump			
12.	Remove the idler gear of oil pump			
13.	Remove the oil pump			
14.	Install new oil pump			
15.	Assemble the engine cover and sump			
16.	Top up the engine oil level			
17.	Remove the Engine sump			
18.	Remove the balancer unit			
19.	Remove the idler gear			
20.	Remove the oil pump drive shaft			
21.	Remove the oil pump mounting bolts			
22.	Install the oil pump			
23.	Assemble the balancer unit			
24.	Assemble the Engine sump			
Competent <input type="checkbox"/>		Not Yet Competent <input type="checkbox"/>		

Knowledge Assessment

Qualification	Agricultural Machinery Technician (Level-04)
Competency Standard	Maintain Lubrication System
Purpose of Assessment	Formative Assessment
Candidate Details	Name: _____ Registration/Roll Number: _____ Candidate Signature: _____
Assessment Outcome	<div style="display: flex; justify-content: space-around; align-items: center;"> COMPETENT <input type="checkbox"/> NOT YET COMPETENT <input type="checkbox"/> </div> Name of the Assessor: _____ Assessor's code: _____ Signature of the Assessor: _____

Candidate's response is not required to be identical, but similar concepts and/or keywords must be used. Oral questioning may be used to clarify candidate understanding of topic and its application.

Questions (Candidate confidently answered questions correctly and demonstrated understanding of the topics and their application)		Satisfactory	Not Satisfactory
1.	What is the main function of oil pump		
2.	What is meant by upper and lower level of lubricant oil		
3.	What is the function of idler gear		

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Feedback to the Candidate	
Candidate's Signature _____	Assessor's Signature _____